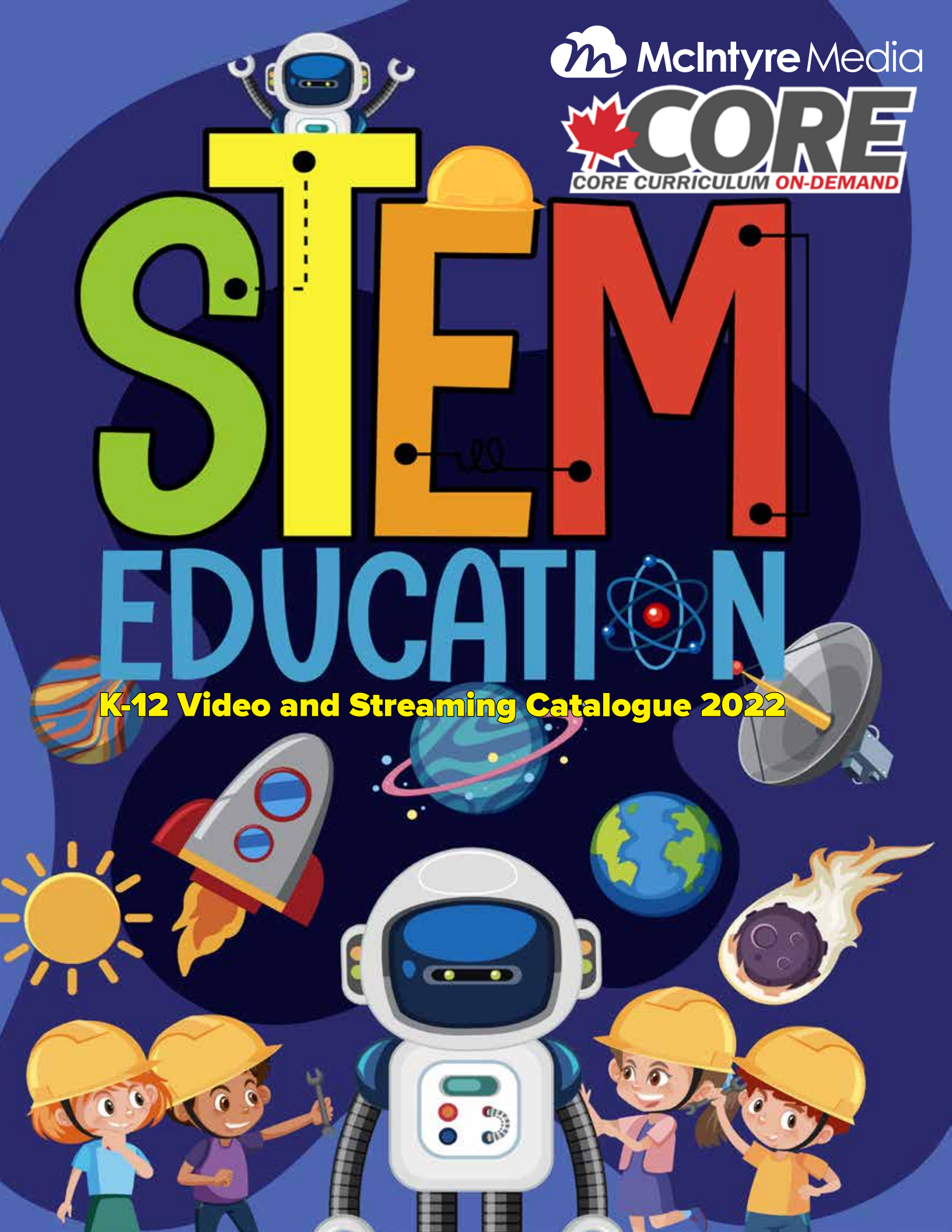


STEM EDUCATION

K-12 Video and Streaming Catalogue 2022





Canada's favourite K-12 Video Streaming Platform

- ✓ **Foster creative thinking**
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Excellence in STEM education will enable your students to become innovators and leaders of change in society. Focus on expanding and diversifying classroom participation in science, technology, math and engineering. The programs you will find in this catalogue are just a sample of what we have available. In forming partnerships with filmmakers across Canada and the rest of the world, we have curated one of the best collections of STEM video resources available to you and your students.

These videos will help you tackle complicated and timely topics such as climate change, the global pandemic, the availability of clean drinking water, energy sustainability and much more!

Lead the change today!





Ms. Scientist

Grades 6-12 2019 43 min Brandy Y Productions

Around the world the fields of scientific research and development remain a male-dominated environment. According to the UNESCO Institute for Statistics less than thirty percent of the world's researchers are women. Many women enter a career in science but leave because of roadblocks and challenges. Canada wants to change that. Brandy Yanchyk's documentary *Ms Scientist* explores how Canada is trying to get female scientists to stay in the fields of science and progress to the top. *Ms Scientist* looks at the successes and challenges that Canada's female scientists face. The film delves into their lives and examines the obstacles that are hindering their success such as balancing family and work, sexual harassment and unconscious bias.

#BYP055 \$129: DVD or 3 year Streaming Rights (K-12 Single Site)



Girls Build the Future

Grades 6-12 2018 10 min Motion Picture Enterprises

Girls are natural-born scientists, mathematicians, and engineers, but societal gender roles -- overt and subliminal, can undermine their confidence and discourage them from pursuing an education and future in science and technology. Using peer real-life experiences, "Girls Build the Future" gives girls awareness and knowledge to help them pursue their interests in science and technology through high school and beyond.

Girls Build the Future is an effective mentoring program that can be used in the classroom to build confidence and skills which will support students as they pursue their scientific passions and add their talents and insights to various fields.

#MPE005 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)



The Giraffe Whisperer - The Legacy of Biologist Anne Innis Dagg: W5

Grades 6-12 2021 21 min CTV

Dan Riskin interviews 83-year-old Anne Innis Dagg, a pioneering Canadian zoologist who literally wrote the books on giraffe. She was the first Western scientist to study the behaviour of any African animal in the wild. She changed the way the world understands giraffe, and questions raised in her first book are still being researched.

#CTV858 \$129.95: DVD or 3 yr Streaming Rights (K-12 Single Site)



Dr. Roberta Bondar: Canada's First Female Astronaut in Space

Grades 6-12 2022 16 min CTV

For years, Dr. Roberta Bondar studied life on Earth. She had trained in the fields of ecology and zoology, spent time as a summer student working with insects and always went camping with her parents growing up. But it wasn't until her journey into space 30 years ago — becoming the first Canadian woman and neurologist to do so — that her view of our planet truly changed.

#CTV896 \$79.95: DVD or 3 yr Streaming Rights (K-12 Single Site)



Hands-On: Women, Climate, Change

Grades 6-12 2014 48 min Elizabeth Miller

Profiles five women from four continents tackling climate change through policy, protest, education and innovation. The film powerfully demonstrates how women are transferring knowledge and local networks into hands-on strategies.

Features:

SILJE LUNDBERG - Norway

MAHESHVARI - Veerampattinam, India

JOSE GERIN-LAJOIE - Cree and Inuit Communities in Quebec

JASMINE THOMAS Saik'uz First Nation (Canada)

ANNABELL WAITITU - Kenya

#SHORE07 \$99: DVD or 3 year Streaming Rights (K-12 Single Site)

Also available in French: SHORE07F \$99: DVD or 3 yr Streaming Rights

GIRLS & WOMEN in SCIENCE

Stella Bowles: The Green Interview Series

Grades 9-12 2019 32 min Paper Tiger



In this exclusive Green Interview, Stella talks about her science project, and how it led to the attention, the awards, a book, and ultimately to a commitment to clean up the LaHave River in Bridgewater, Nova Scotia. For her work, Stella was named one of Canada's top 25 environmentalists under 25.

#PT0101 \$159: DVD or 3 year Streaming Rights (K-12 Single Site)



True Wild

Grades 6-12 2020 21 min
Kings Road Media

Biologist Val Asher, one of the world's most knowledgeable wolf behaviour biologists, offers amazing insights into

the real, not mythological, wolf. Having spent more than 20 years studying wolves, her wisdom and insights are invaluable in demystifying one of North America's most elusive animals. She is for wolves in North America what Jane Goodall was for chimps in Africa.

#KRM000 \$129: DVD or 3 Year Streaming Rights (K-12 Single Site)

The Animals We Are: Jane Goodall - The Green Interview Series

Grades 9-12 2011 41 min Paper Tiger



This episode of The Green Interview features Jane Goodall, a primatologist, ethologist, anthropologist, and environmental advocate whose studies with chimpanzees in Tanzania have changed not only our understanding of chimpanzees but also our understanding of the nature of human beings. In 1977, she established the Jane Goodall Institute (JGI), which supports the Gombe research. Today she devotes virtually all of her time to advocacy on behalf of chimpanzees and the environment, traveling nearly 300 days a year.

#PT0095 \$159: DVD or 3 Year Streaming Rights (K-12 Single Site)

Defending Democracy and the Water Rights: Maude Barlow - The Green Interview Series

Grades 9-12 2013 62 min Paper Tiger



This episode of The Green Interview features Maude Barlow, a Canadian environmental activist and author who argues that water is the next oil. As chair of the Council of Canadians, Barlow led a public fight

against the North American Free Trade Agreement (NAFTA) in the 1980s and for over a decade, she has focused her boundless energy on a crisis of global proportions: the looming world-wide water shortage, which is accelerated by free-trade deals that privatize water.

#PT0057 \$159: DVD or 3 Year Streaming Rights (K-12 Single Site)

Water on the Table

Grades 9-12 2010 79 min LizMars Productions

WINNER – Best Canadian Feature Film – Planet in Focus Film Festival



Is water a commercial good like Coca-Cola, or a human right like air?

Featuring best-selling author, activist and public figure Maude Barlow and her crusade to have water declared a human right, protected from privatization, WATER ON THE TABLE explores Canada's relationship to its freshwater, arguably its most precious natural resource. The film shadows Barlow over the course of a year as she leads an unrelenting

schedule as the U.N. Senior Advisor on Water to Father Miguel d'Escoto Brockmann, President of the 63rd Session of the United Nations.

Counterbalancing Barlow's views are those of policy and economic experts who assert that water is a resource and a commodity like any other.

#LMPI01 \$129: DVD or 3 year Streaming Rights (K-12 Single Site)

Why Salmon Are Sacred: Alexandra Morton - The Green Interview Series

Grades 9-12 2011 71 min Paper Tiger



This episode of The Green Interview features Alexandra Morton, a citizen scientist who has worked as an outspoken advocate for conserving and protecting marine species on Canada's west

coast. In 2009, Morton launched and won a legal challenge in the British Columbia Supreme Court that forced the provincial government to hand over fish-farm management to the federal government. In 2011, she took the stand at an inquiry to investigate the 2009 collapse of the Fraser River sockeye runs. Morton links the collapse and the overall degradation of the wild stocks to diseases being spread by the salmon farms located along, and in very close proximity to, the migration route of the wild stocks.

#PT0043 \$159: DVD or 3 Year Streaming Rights (K-12 Single Site)



All About Plants Series

Grades K-6 2020 9-11 min ea Educational Voice

Plants are super important for the environment. In this animated video series, we learn how plants support life on Earth. They release oxygen, absorb carbon dioxide, regulate the water cycle and provide habitat for many types of life. Students will love this engaging and interactive series as they learn about the world around us.

Series Order #992111 \$711 (9 titles):

DVD or 3 yr Streaming Rights (K-12 Single Site)

Individual titles: \$79: DVD or 3 yr Streaming (K-12 Single Site)

Episodes include the following:

#992112	Plants and The Environment
#992114	Plants as Habitats
#992115	Plants Around the World
#992116	Different Types of Plants
#992117	How Plants Grow
#992118	Plants and Animals
#992119	Underwater Plants
#992120	Plants as Food
#992121	Characteristics of Plants



All About Photosynthesis

Grades 2-6 2017 14:22 min

Wonderscape Entertainment

We learn all about photosynthesis, the process through which plants make food, with new, precise, yet easy-to-understand, definitions and explanations. Plants need three components to make food: carbon dioxide, water, and solar energy.

Different parts of plants are involved in photosynthesis: roots, leaves, stems,

xylem, stomata, and chloroplasts. And what is produced by plants during photosynthesis? The answers to this and other questions are covered in depth with detailed graphics, diagrams and exciting video. On-screen, multiple-choice reviews at the end of each segment reinforce important concepts and make learning fun.

#WE0079 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)

Matter and Energy in Organisms and Ecosystems

Grades 6-12 2021 18:35 min Wonderscape Entertainment

How do plants obtain energy? How does food give us energy?

We learn about matter and energy in organisms and ecosystems: the flow of energy in an ecosystem, how chemical changes turn matter (food) into energy for living organisms; biotic and abiotic factors in ecosystems; plants and energy, photosynthesis, energy transformation, energy producers and consumers; nutrients, digestion, metabolism, chemical respiration, metabolic rate, carnivores, omnivores, herbivores, food chains and food webs; matter, energy, organisms, and conservation of mass and energy in an ecosystem; environments, scavengers, decomposers, predators, prey; interdependence.

#WE0094 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)



All About Birds Series

Grades K-6 2020 11-15 min ea Educational Voice

Birds! They're everywhere! There are thousands of species and they can be found on every continent. In this animated series, Professor Birdie with her young friends Aaron and James give elementary students get a wonderful overview of birds. From the mythology of birds to the fascinating story of bird migration and bird habitats, young students will learn all there is to know about birds!

Series Order #992086 \$790 (9 titles):

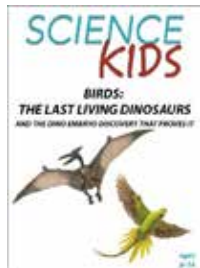
DVD or 3 yr Streaming Rights (K-12 Single Site)

Indiv. titles: \$79: DVD or 3 yr Streaming Rights (K-12 Single Site)

#992087	Bird Stories
#992088	Strange Birds
#992089	Bird Evolution
#992090	Birds and Humans
#992091	Bird Migration
#992092	Breeding and Development
#992093	How Do Birds Fly?
#992094	How Do Birds Eat?
#992095	Bird Habitats
#992096	What is a Bird?

Birds: The Last Living Dinosaurs - And The Dino Embryo Discovery That Proves It

Grades 9-12 2022 21:47 min Wonderscape Entertainment



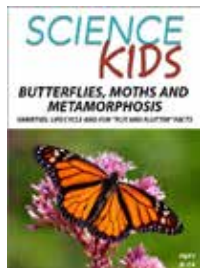
Learn all about the latest dinosaur embryo discovery in China and how scientists now view birds as today's last living dinosaurs. What is the "hopeful monster" theory? Did all dinosaurs actually have feathers? Why are birds so small today if they descended from dinosaurs? Is there an evolutionary advantage to being small? How did the round, fleshy dinosaur snout become a bird

beak? The answers to these questions are covered in depth with detailed graphics, engaging examples and exciting video that reinforce important points and make learning fun.

#WE0102 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)

Butterflies, Moths and Metamorphosis - Varieties, Life Cycle and Fun "Flit and Flutter" Facts

Grades 4-8 2022 21:53 min Wonderscape Entertainment



Learn all about butterflies, moths and the amazing process of metamorphosis. How many varieties of butterflies and moths are there? Why do butterflies have spots on their wings that look like eyes? What evolutionary benefit might these "eyes" provide? Do moths really make silk? How does a caterpillar become a butterfly or moth? What is a chrysalis? How are Monarch

butterflies capable of multi-generational migration where the descendants return to the exact location of their ancestors starting point? How can we help endangered butterflies survive?

The answers to all of these questions and more are covered in depth with detailed graphics, diagrams and exciting video that reinforce important concepts and make learning fun.

#WE0103 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)

The Trumpeter Swan Returns

Grades 9-12 2020 6 min Parallel Vision Productions



These incredible birds are the largest swans in the world. The swans that we usually see on the lakes in Ontario, are mute swans that were brought over from Europe when the trumpeter swans went extinct. Harry Lumsden, a retired biologist from the Ministry of Natural Resources, made it his life mission to revive the species and now there are close to two thousand trumpeter swans in Ontario and

forty thousand in the world. Harry, who is now 96 years old, sat down with film producer Michelle Melles to tell his story.

#PVP002 \$59: DVD or 3 yr Streaming Rights (K-12 Single Site)



All About Insects

Grades K-6 2020 11-14 min ea Educational Voice

We are surrounded by insects, so it's important to get to know them a little more. Insects are incredible and although by their size they might seem unimportant, they are fundamental for nature's balance. In this engaging, animated series, young students learn all about the wonderful world of insects!

Series Order #992142 \$711 (9 titles):

DVD or 3 yr Streaming Rights (K-12 Single Site)

Individual titles: \$79: DVD or 3 yr Streaming Rights (K-12 Single Site)

Episodes include the following:

#992143	What is an Insect?
#992144	Insects Around the World
#992145	Insects - Senses and Communication
#992146	Insect Ecology
#992147	Breeding of Insects
#992148	Insects and Humans
#992149	Insects Are Important
#992150	Habitats of Insects
#992151	How Insects Move

The Animals in Africa

Grades K-5 15 min 2017 Kunskapsmedia Group

In this film, we learn where Africa is and what kinds of animals live there. We take a closer look at many different kinds of animals and learn about their characteristics and how they are grouped. We meet the gecko lizard that cannot blink but must lick itself in the eyes! We learn about wildebeests, baboons, giraffes, and elephants. Who are "The Big Five"? What does a secretary bird look like? How high can a termite get? We learn all this in the film about animals in Africa!

#KMG017 \$129.95: DVD or 3 yr Streaming Rights (K-12 Single Site)

The Animals in North America

Grades K-5 14 min 2017 Kunskapsmedia Group

In this film, you will learn about where North America is located and the types of animals that live there. We will take an in-depth look at different animals and learn about their characteristics and about how they are grouped. You will meet the grizzly bear, the rattlesnake and the bald eagle. You will also be introduced to the black widow spider and learn how high a cougar can jump. You will even discover why it is that flamingos are pink! All this and more can be found in the film about the animals of North America!

#KMG018 \$129.95: DVD or 3 yr Streaming Rights (K-12 Single Site)

Hibernating Animals: The Science of Slowing Down

Grades 3-8 2018 16:42 min Wonderscape Entertainment



What is hibernation? Why do animals hibernate? We learn about: the adaptation of hibernation, classes of animals that hibernate, estivation (dormancy to conserve energy in hot periods or when habitats are disrupted), preparing for hibernation, hyperphagia, hibernacula (den) preparations, triggers for hibernation, circannual rhythms, physiological changes during hibernation, torpor (modified hibernation), interesting

hibernation facts. Detailed graphics, exciting video and multiple-choice reviews reinforce important concepts.

#WE0091 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)

A World Unnoticed

Grades 9-12 2021 94 min HG Distribution

French with English subtitles.



Currently in hibernation are the amphibians and reptiles of Quebec. Of all the animal species living in this area, they are the most unknown and discreet. Their story starts at the end of winter, as the snow melts.

Accompany them through one year in all the stages of their life, as they evolve, season by season. Discover their struggles and their

reality, drastically changing through our influence.

#HG0001 \$159: DVD or 3 yr Streaming Rights (K-12 Single Site)

Un monde inaperçu

Grades 9-12 54 min HG Distribution

Dans un profond sommeil depuis plusieurs mois, sont les amphibiens et reptiles du Québec. De toutes les espèces animales, elles sont parmi les plus discrètes et les plus méconnues. Leur histoire commence à la fin de l'hiver, dès la fonte des neiges. Voyez-les à travers toutes les étapes de leur vie, en survolant les quatre saisons. Découvrez leurs luttes, et leur réalité qui change drastiquement, sous notre influence.

#HG0001FR \$159: DVD or 3 yr Streaming Rights (K-12 Single Site)

Invertebrates - Sponges, Worms, Mollusks, Arthropods, Echinoderms

Grades 6-12 2018 19:28 min Wonderscape Entertainment



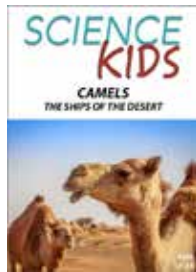
Learn all about invertebrates. What are the major characteristics of invertebrates? What are sponges, worms, mollusks, arthropods and echinoderms? How are they all uniquely different? The answers to all of these questions and many more are covered in depth with detailed graphics, diagrams and exciting video. On-screen, multiple-choice reviews at the end of each segment reinforce

important concepts and make learning fun.

#WE0093 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)

Camels - The Ships of the Desert

Grades 3-8 2022 21:40 min Wonderscape Entertainment



For thousands of years, the people of the Middle East relied on camels for travel and transportation, nourishment and fibres; and camels are still an important part of Middle Eastern culture. Why are camels commonly referred to as "the ships of the desert?"

Why do camels have humps? What are the differences between dromedary and bactrian camels? How can camels drink up to fifty

gallons of water in less than five minutes? What is the life cycle of a camel? How can we save camels from becoming extinct?

The answers to all of these questions are covered with detailed graphics, diagrams and exciting video that reinforce important concepts.

#WE0104 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)

Rhinos and Hippos - Species, Life Cycles and Fun Facts

Grades 3-8 2022 20:05 min Wonderscape Entertainment



In this high-definition program, learn all about rhinos and hippos. What are the similarities and differences? Are hippos related to rhinos? How fast can a hippo run?

How do rhinos and oxpecker birds have a symbiotic relationship? How do hippos and barbel fish have a symbiotic relationship?

How can we help rhinos and hippos from becoming extinct? The answers to all of

these questions and more are covered in depth with detailed graphics, diagrams and exciting video that reinforce important concepts and make learning fun.

#WE0110 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)

Growth and Change Series

Grades SK-3 2017 2 x 15 min each McIntyre Media Inc.

Gives elementary students an excellent overview of the growth and changes that take place in plants and animals. We cover basic needs for survival, adaptations, the importance of both to the environment and how First Nations people in Canada have relied on both for survival.

Series Order #MCI100 \$238 (2 titles):

DVD or 3 yr Streaming Rights (K-12 Single Site)

Individual titles: \$129: DVD or 3 yr Streaming Rights

Growth and Change in Animals

Focuses on investigating the distinct characteristics of animals related to appearance, behaviour, growth, and change. Students will meet and study a variety of different types of animals with a focus on wild animals that can be found here in Canada.

#MCI101: \$129

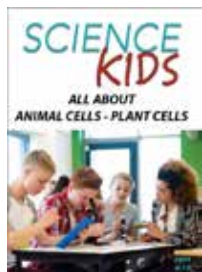
Growth and Change in Plants

Focuses on the characteristics and requirement of plants and the ways in which plants grow. Students will learn the major parts of a plant, including the root, stem, flower, stamen, pistil, leaf, seed and fruit. The basic needs of plants are detailed as well as a description of the life cycle.

#MCI102: \$129

All About Animal Cells - Plant Cells

Grades 7-12 2017 23:53 min Wonderscape Entertainment

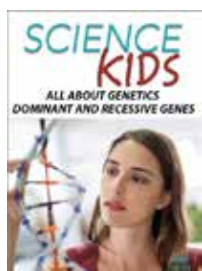


Students will learn what cells are and why they are important to living things. They will also understand the parts of an animal cell and plant cell and the differences between them. The show covers, in detail, why cells need to divide and the two types of cell division (Mitosis and Meiosis). Lastly, students will see how cells are organized in the human body.

#WE0075 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)

All About Genetics: Dominant and Recessive Genes

Grades 9-12 2017 19:28 min Wonderscape Entertainment



Learn all about genetics with new, precise, yet easy-to-understand, definitions and explanations. Why are certain traits either dominant or recessive? What are genes, DNA and chromosomes? What is genetic inheritance? The answers to all of these questions are covered in depth with detailed graphics, diagrams and exciting video. On-screen, multiple-choice reviews at the end of each segment reinforce important concepts and make learning fun.

#WE0077 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)

Genetics - How Traits Are Inherited

Grades 9-12 2022 16 min Kunskapsmedia Group



Why do you have brown eyes like your dad and not blue eyes like your mom? In this video, we learn how traits are inherited. This is called genetics! In this video, we learn about Punnett squares and how our genes are put together. We go through terms like zygote, cell division, chromosome, cross-breeding and clones. We investigate the difference between dominant and recessive traits, and what determines whether a gamete develops into a girl or boy!

#KMG041 \$129.95: DVD or 3 yr Streaming Rights (K-12 Single Site)

All About Natural Selection and Adaptations

Grades 9-12 2017 26:24 min Wonderscape Entertainment



Learn all about natural selection and adaptations with new, precise, yet easy-to-understand, definitions and explanations. What is natural selection? What are adaptations? What are some ways that animals have adapted to their environments? What are fossils? What is the fossil record? What factors affect how well the fossil record is preserved? The answers to these questions

are covered in depth with detailed graphics, diagrams and exciting video. On-screen, multiple-choice reviews at the end of each segment reinforce important concepts and make learning fun.

#WE0078 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)

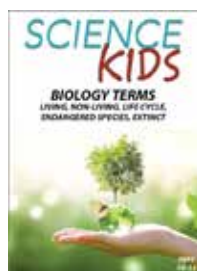


Taxonomy: The Classification of Living Things

Grades 6-12 2021 15 min Kunskapsmedia Group

There are many species of animals, plants and fungi in the world. But where do these classifications come from? That's what we're going to learn in this video! We'll learn the background of modern taxonomy and how Carl Linnaeus influenced it. We go through terms like species, genus, pathogens and cryptogams. We also learn what domains are and why all organisms have a Latin name.

#KMG036 \$129.95: DVD or 3 yr Streaming Rights (K-12 Single Site)



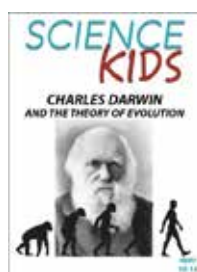
Biology Terms: Living, Non-Living, Life Cycle, Endangered Species, Extinct

Grades 6-12 2022 22:10 min

Wonderscape Entertainment

Learn all about important biology terms that align with biology. Terms are defined and exemplified for better comprehension. Terms covered are: Living; Non-Living; Life Cycle; Endangered Species; Extinct. Detailed graphics, diagrams and exciting video reinforce important concepts and make learning fun.

#WE0101 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)



Charles Darwin and the Theory of Evolution

Grades 9-12 2022 21:24 min

Wonderscape Entertainment

In this program, learn all about the life and scientific theories of naturalist Charles Darwin. What is natural selection? What is adaptation? What are the three main components to Darwin's Theory of Evolution? What is the present-day significance of

Darwin's scientific theories? The answers to all of these questions and more are covered in depth with detailed graphics, diagrams and exciting video that reinforce important concepts and make learning fun.

#WE0105 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)



Biomes Series

Grades 6-12 2021 13 min ea Kunskapsmedia Group

What in the world is a biome? Students will learn all about these fascinating environments in this 4-part video series that examines some of the primary biomes found on earth. From forest to grasslands and from freshwater environments to deserts, students will learn that each biome is unique because of its climate as well as its variety of plant and animal life.

Series Order #KMG042 - \$519.80: DVD or 3 yr Streaming Rights (K-12 Single Site)

Forests: Biomes Series

In this video, we learn about forests, one of the world's biggest biomes. We'll start by discussing what a forest really is - because it's a lot more than just trees! The forest is in many ways a key resource, above all for the climate, but also for the economy. The forest absorbs part of the carbon dioxide we release when we burn fossil fuels. We learn about the layers that make up a forest. We also take a closer look at the types of forest that exist and what plants and animals we find there. Why do leaves change color in the fall? We'll learn that too.

#KMG043 \$129.95: DVD or 3 yr Streaming Rights (K-12 Single Site)

Deserts: Biomes Series

When we think of the desert, perhaps we mostly think of large expanses of sand dunes. But only a tiny part of the Earth's deserts are like that. We learn the difference between the two main types of deserts - dry deserts and polar deserts. We also learn where on Earth deserts form. We go through terms like tropic, zenith and rain shadow.

#KMG044 \$129.95: DVD or 3 yr Streaming Rights (K-12 Single Site)

Oceans: Biomes Series

Our oceans -what are they? What does overfishing do? How does photosynthesis work at sea? What could a marginal sea be? We'll also be taking a look at marine plants and animals. And we'll explore some of the challenges and problems our oceans face, and what we can do to make a difference.

#KMG045 \$129.95: DVD or 3 yr Streaming Rights (K-12 Single Site)

Freshwater: Biomes Series

We take a look at what makes freshwater so important and find out which plants and animals live in a freshwater habitat. We'll also explore some of the challenges and problems the world faces -like pollution and water shortages - and what we can do to make a difference. What is eutrophication and what is a wetland? We'll tell you all about it in this video about freshwater!

#KMG046 \$129.95: DVD or 3 yr Streaming Rights (K-12 Single Site)



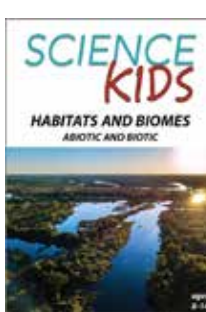
Trees: Social Interactions and their Role in the Ecosystem

Grades 3-6 2021 19:50 min Wonderscape Entertainment

We learn all about trees and their role in the ecosystem: why we need trees; how trees respond and adapt to their environment and process energy; oxygen production; fruit bearing trees; how tree seeds are spread; medicine from trees; parts of a tree; tree rings; deciduous

and coniferous trees; tree species; how trees make and store energy through photosynthesis; types of forest ecosystems; forest layers; cooperative interaction among trees via fungal networks; impacts of deforestation; sustainability of forests; and the role of conservationists. Detailed graphics, diagrams and exciting video reinforce important concepts.

#WE0112 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)



Habitats and Biomes: Abiotic and Biotic

Grades 3-6 2021 26 min Wonderscape Entertainment

Learn all about habitats and biomes. What are the five major types of biomes? What do the terms abiotic and biotic mean? What animals are found in the various biomes? What is an ecosystem? The answers to these questions and more are covered in depth with detailed graphics and exciting video. On-screen, multiple-choice reviews at the end of each segment reinforce

important concepts and make learning fun.

#WE0090 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)



Understanding Life Systems Series

Grades 3-8 2019 CC 7-10 min each 291 Film Company

This 3-part series has been specifically designed for your elementary science curriculum. Short, concise, colourful programs introduce students to important concepts and issues. These programs provide a wonderful introduction or overview of science essentials.

*Special Series Price – SAVE \$30 – ONLY \$237
Series Ordering #291113*

Habitats and Communities

Grade 3-5 2019 7 min 291 Film Company

This short, concise film examines the positive and negative impacts of human interactions with natural habitats and communities. We depend on natural habitats for many things, including food, building materials, clothing, and medicine but we also use natural habitats for building houses, cities and towns, and factories. As the population grows, we clear more natural habitats such as wetlands, plains, lakes and oceans. How can we continue to use these areas while also maintaining them for this and future generations? *Terminology: natural habitats, natural resources, natural environments, pollution, sustainable.*

#291114 \$89: DVD or 3 yr Streaming Rights (K-12 Single Site)

Biodiversity

Grade 4-6 2019 8 min 291 Film Company

All living things, including humans, are connected. Each species—no matter how small—has an important role to play. In this new program, we explore biodiversity and its importance to maintaining the balance of nature. Without biodiversity as a safety net, nature's survival would be at risk. Humans are by far the biggest cause of changes to biodiversity. How can we protect the biodiversity of the Earth? *Terminology: biodiversity, genetic diversity, species diversity, ecosystem diversity, ecosystem, habitat.*

#291115 \$89: DVD or 3 yr Streaming Rights (K-12 Single Site)

Interactions in the Environment

Grade 6-8 2019 10 min 291 Film Company

In this short new film, students will observe existing ecosystems and investigate factors that may affect balances within the system. Students will learn that ecosystems consist of communities of plants and animals that are dependent on each other as well as on the nonliving parts of the environment. *Terminology: abiotic, biotic, biome, ecosystem, producer, consumer, decomposers, symbiotic, food chain, invasive species, native species.*

#291116 \$89: DVD or 3 yr Streaming Rights (K-12 Single Site)

Sustainability and Climate Change Series

Grades 7-10 2019 CC 7-10 min each 291 Film Company

Building on our “Understanding Life Systems Series,” we continue to explore important science concepts to meet the needs of your Grade 7 to 10 students. In these two short, concise films, we build an appreciation for the environment and promote an appreciation of the dynamic interactions of the earth's physical and biological systems as well as the positive and negative consequences of the interactions between human-created and natural systems.

*Special Series Price – SAVE \$20 – ONLY \$158
Series Ordering #291117*

Sustainable Ecosystems

Grade 7-10 2019 7 min 291 Film Company

A sustainable ecosystem is a natural habitat that can maintain itself without the influence of outside forces. They can easily be disrupted by human activity. Things like toxic chemicals, land re-purposing, water diversion, deforestation all contribute to the destruction of sustainable ecosystems. Humans have a major impact on all natural systems, but we can mitigate those impacts if we are thoughtful. *Terminology: sustainability, closed loop, natural systems, solar power, wind power.*

#291118 \$89: DVD or 3 yr Streaming Rights (K-12 Single Site)

Climate Change

Grade 7-10 2019 10 min 291 Film Company

Climate change refers to the increase in average global temperatures and the causes and impacts of that change. Temperatures around the world have been increasing for several decades. In this short, concise program, we examine some of the causes and effects of climate change and assess the effectiveness of initiatives that attempt to address the issue. *Terminology: climate change, greenhouse effect, water cycle, permafrost, fossil fuel, desertification.*

#291119 \$89: DVD or 3 yr Streaming Rights (K-12 Single Site)



Sharing Our Habitat Series/Partageons notre habitat

Grades 4-11 2019 CC 21 min each Pinegrove Productions

Sharing Our Habitat takes the viewer from the wilds of the boreal forest to the densely populated regions of southern Ontario. Each of the six episodes follows the adventures of Albert and Brittany, our Incredible Investigators, as they go on assignments to root out the causes behind species becoming at-risk, and to learn what they can do about it. Assisted by their quirky video gamer friend Charlie, the two go on a series of fact-finding missions, interviewing scientists, First Nation elders, farmers and others. This informative and fun series brings to life the world of science and the importance of the wild in all our lives.

Special Series Price – SAVE \$60 - only \$534 - DVD or 3 yr Streaming Rights (K-12 Single Site)

Series Ordering #PPE025 (EN) #PPF003 (FR)

Episodes include:



Into the Boreal/ Dans la forêt boréale

On assignment to find out about species at risk in the boreal forest, Jack and Tabitha board the Polar Bear Express and

head north to Moosonee. Jack meets with a research scientist to learn more about an elusive northern predator, the wolverine, while Tabitha ventures into the pristine wilderness around the Northern French River to talk with Cree researchers about their Lake sturgeon recovery program.

EN: #PPE026 \$99: DVD or 3 yr Streaming Rights (K-12 Single Site)

FR: #PPF004 \$99: DVD or 3 yr Streaming Rights (K-12 Single Site)



Disappearing Grasslands/ Prairies en voie de disparition

Tabitha and Jack's assignment is to investigate two endangered grassland

species – the Loggerhead shrike and the American badger. Tabitha camps beside a badger's den while Jack discovers the loggerhead shrike has some pretty gruesome habits.

#PPE027 \$99: DVD or 3 yr Streaming Rights (K-12 Single Site)

#PPF005 \$99: DVD or 3 yr Streaming Rights (K-12 Single Site)



Aquatic Haunts/ Repaires aquatiques

Tabitha and Jack are sent on a mission to learn about aquatic and semi-aquatic species at risk. Jack heads to Rondeau

Park where he sets up a night-time stakeout, survivorman style, for the nocturnal Fowler's toad that inhabits beaches and marshes in the park. He bumps into a herpetologist who explains why the toads are at risk and invites Jack to check out a breeding program for Fowler's Toads. Tabitha meanwhile meets with a Mohawk biologist who introduces her to the long and perilous journeys made by American eel in their fight for survival.

#PPE028 \$99: DVD or 3 yr Streaming Rights (K-12 Single Site)

#PPF006 \$99: DVD or 3 yr Streaming Rights (K-12 Single Site)



Shrinking Forests/ Les forêts qui rapetissent

When Jack learns that their next assignment involves a mysterious green

dragon, he's out the door with Tabitha close behind. After an hour of hiking and no sign of dragons the two run into a field researcher who informs them that they are nearly standing on it. Disappointed that it's only a plant, Jack heads off to investigate a lizard. Meanwhile Tabitha, fascinated by plants, discovers from a First Nations elder why everything was so secretive on this mission.

#PPE029 \$99: DVD or 3 yr Streaming Rights (K-12 Single Site)

#PPF007 \$99: DVD or 3 yr Streaming Rights (K-12 Single Site)

Vanishing Wetlands/ Les zones humides en voie de disparition



Tabitha learns about turtles and gets an opportunity to assist with a turtle recovery project and to learn why so many species of turtles are at risk. Jack

reluctantly accepts a snake assignment that takes him to a major highway development and bridge in Windsor, Ontario. A species expert shows Jack a major wildlife passage under the 6-lane parkway that the developers were required to include in the building of the highway.

#PPE030 \$99: DVD or 3 yr Streaming Rights (K-12 Single Site)

#PPF008 \$99: DVD or 3 yr Streaming Rights (K-12 Single Site)

Shared Urban Spaces/ Espaces urbains partagés



In this final episode, our investigators are assigned to look to their own habitat to find species at risk. Their adventure takes them to a bat cave where they meet

with an urban planner who explains what she does to ensure that urban spaces leave room for the needs of wild species. Determined to also do their best to help wild species, the team comes up with a brilliant plan.

#PPE031 \$99: DVD or 3 yr Streaming Rights (K-12 Single Site)

#PPF009 \$99: DVD or 3 yr Streaming Rights (K-12 Single Site)



Bacteria

Grades 6-12 2016 30:03 min

Wonderscape Entertainment

Learn all about the human skeletal and muscular systems with new, precise, yet easy-to-understand, definitions and explanations. What are the main functions and components of the skeletal system? What are the types of bones in the skeletal system?

What are muscles? What are the different types of muscles in our bodies, and what are their jobs? The answers to all of these questions are covered in depth with detailed graphics, diagrams and exciting video. On-screen, multiple-choice reviews at the end of each segment reinforce important concepts and make learning fun.

#WE0083 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)



COVID-19 - The Possible Future of COVID-19: From Pandemic to Endemic

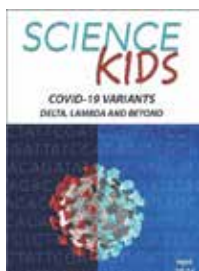
Grades 7-12 2022 19:30 min

Wonderscape Entertainment

In this 2022 high-definition program, learn all about the possible future of COVID-19. What does "endemic" mean? Will I still have to wear a mask? Is Omicron the last COVID-19 virus I need to worry about? Do I still need

to get booster shots? The answers to all of these questions and more are covered in depth with detailed graphics, diagrams and exciting video that reinforce important concepts.

#WE0111 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)



Understanding COVID-19 Variants - Delta, Lambda and Beyond

Grades 6-12 2021 18:58 min

Wonderscape Entertainment

COVID-19 variants had a devastating effect on people worldwide. We learn details about vaccines; variants; how virus variants emerge; virus replication; genetic mutation in viruses; transmissibility; viral load; broad

immune system responses; breakthrough infections; variants of interest; variants of concern; naming variants; and slowing the spread. Detailed graphics, diagrams, and exciting video reinforce important concepts.

#WE0113 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)



COVID-19 - Understanding Breakthrough Infections

Grades 7-12 2022 19:22 min

Wonderscape Entertainment

Examines COVID-19 variants and breakthrough infections. Why are vaccinated people, even those with booster shots, catching COVID-19? How does the vaccine still protect you? How is Omicron different

from the Delta variant? Why are variants developing and spreading? What does the future look like with this mutating virus? We may live in uncertain times, but the certainty of science is reassuring to us all.

#WE0106 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)



Pandemics

Grades 6-12 2020 5 min

Kunskapsmedia Group

The word pandemic comes from Greek and means "pertaining to all people". At the end of 2019, the infectious disease covid-19 was discovered. It then spread all over the world,

which had enormous consequences for millions of people. In this educational clip, we learn about the characterizes a pandemic; known pandemics such as the Great Death, the Spanish flu, the Asian, the Hong Kong flu and the swine flu; You will also learn about infodemics - rapid, massive spreading of both false and true information - as well as the importance of credible sources in times when false rumors spread quickly.

#KMG003 \$59: DVD or 3 yr Streaming Rights (K-12 Single Site)



The Next Pandemic: Is a Deadlier Virus on the Horizon?: W5

Grades 9-12 2021 22 min CTV

Experts warn that the next pandemic could be much worse than COVID-19. In this program, we meet virologist Angela

Rasmussen who is joining a new

ground-breaking lab in Saskatchewan that will allow safe study of new pathogens and help build new vaccine technologies for animals and humans.

#CTV887 \$129.95: DVD or 3 yr Streaming Rights (K-12 Single Site)



The Host: W5

Grades 9-12 2020 22 min CTV

Dan Riskin speaks to two scientists who are studying how bats can live with coronaviruses in their bodies with no negative

side effects. As more of the natural habitats of bats disappear around the world, the bats and the viruses they carry are coming into urban areas. Is understanding bats the key to the fight against COVID-19? Two Canadian scientists are teaming up to put that theory to the test.

#CTV838 \$129.95: DVD or 3 yr Streaming Rights (K-12 Single Site)



Inside Wuhan: W5

Grades 9-12 2020 20 min CTV

The epidemic COVID-19 virus caused international apprehension for everyday life, but in Wuhan, China, the initial location of the outbreak, the

city initially on lockdown became eerily empty. W5 presents a rare, first-person account from one Canadian quarantined in the disease's epicenter with INSIDE WUHAN.

#CTV825 \$129.95: DVD or 3 yr Streaming Rights (K-12 Single Site)



The Magical Human Body Series

Grades 3-6 2020 4-12 min ea Educational Voice

The human body is fascinating. In this colourful animated series, students will journey inside the body to learn all about it's various systems and components and learn how to stay healthy.

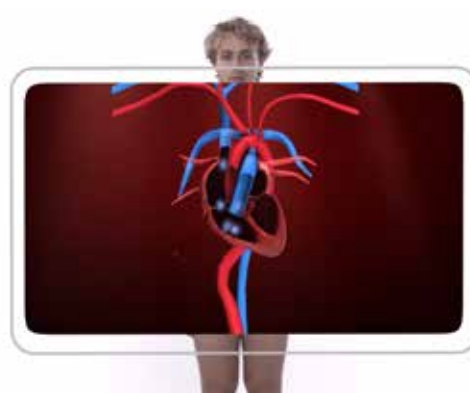
Series Order #992162 \$948 (12 programs):

DVD or 3 yr Streaming Rights (K-12 Single Site)

Individual titles: \$79: DVD or 3 yr Streaming Rights
(K-12 Single Site)

Episodes include the following:

#992163	The Brain
#992164	The Amazing Immune System
#992165	The Nose
#992166	The Fabulous Ears
#992167	The Mysterious Mouth
#992168	The Wonderful Lungs
#992169	The Super Skeleton
#992170	The Digestive System
#992171	The Exciting Eyes
#992172	The Heart
#992173	Skeleton Facts for Kids
#992174	Healthy Eating



The Human Body Series

Grades 5-10 2020-2022 52 min Kunsapsmedia Group

The human body is made up of multiple interacting systems. In this series, we will learn about the cardiovascular, immune, respiratory and muscular systems. It takes ALL of your body systems working together to help living things survive.

Series Order #KMG006 \$519.80 (4 programs)

DVD or 3 yr Streaming Rights (K-12 Single Site)

Breathing and Your Lungs

In this video, we explore how the respiratory system works. We learn about cellular breathing and the organs involved in the breathing process -lungs, alveoli, bronchi and diaphragm; what a gas exchange is; how our body controls breathing, and conditions that affect breathing. Finally, we'll talk about how to keep our respiratory system healthy.

#KMG007 \$129.95: DVD or 3 yr Streaming Rights (K-12 Single Site)

The Cardiovascular System

In this film we explore the cardiovascular system: hemoglobin transports oxygen in the red blood cells, how blood delivers nutrients and disposes of waste; the role of white blood cells in fighting disease and infections; the components of blood, the role of platelets and the function and structure of the heart; pulmonary and systemic circulation; blood vessels -arteries, capillaries and veins; blood pressure and pulse; and how to keep your heart healthy.

#KMG008 \$129.95: DVD or 3 yr Streaming Rights (K-12 Single Site)

The Immune System

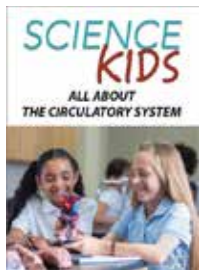
This video will teach us about the human immune system and how it keeps us healthy. We'll be going through concepts like transmission of germs, surface barrier responses, internal responses, vaccines, allergies, and blood cells. We'll also be looking at the difference between the immune system as a whole and our body's defenses. To wrap things up, we'll describe a few immune system disorders and provide a few pointers to promote a healthy immune system.

#KMG009 \$129.95: DVD or 3 yr Streaming Rights (K-12 Single Site)

Skeleton and Muscle

They hold us up and help us move our bodies. This video explores our bones and muscles! We look at the different kinds of bones: long bones, flat bones and irregular bones. We also learn terms like smooth muscle, saddle joint and periosteum. Finally, we'll talk about how to keep our bones and muscles healthy.

#KMG010 \$129.95: DVD or 3 yr Streaming Rights (K-12 Single Site)



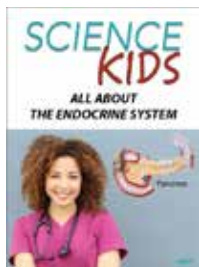
All About The Circulatory System

Grades 5–10 2017 18:11 min Wonderscape Entertainment

Learn all about the circulatory system with new, precise, yet easy-to-understand, definitions and explanations.

What is the function of the circulatory system? What parts of the body make up the circulatory system? What are the parts of the heart and their function within the circulatory system? What are the types of blood vessels and their functions? And lastly, what is blood and its function? The answers to all of these questions are covered in depth with detailed graphics, diagrams and exciting video. On-screen, multiple-choice reviews at the end of each segment reinforce important concepts and make learning fun.

#WE0080 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)



All About The Endocrine System

Grades 5–10 2017 14:33 min Wonderscape Entertainment

Learn all about the endocrine system with new, precise, yet easy-to-understand, definitions and explanations.

What is the function of the endocrine system? What are the major glands and their functions? What happens if the endocrine system is not working properly? The answers to all of these questions are covered in depth with detailed graphics, diagrams and exciting video. On-screen, multiple-choice reviews at the end of each segment reinforce important concepts and make learning fun.

#WE0081 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)



All About The Human Skeletal and Muscular Systems

Grades 5–10 2017 18:42 min Wonderscape Entertainment

Learn all about the human skeletal and muscular systems with new, precise, yet easy-to-understand, definitions and explanations.

What are the main functions and components of the skeletal system? What are the types of bones in the skeletal system? What are muscles? What are the different types of muscles in our bodies, and what are their jobs? The answers to all of these questions are covered in depth with detailed graphics, diagrams and exciting video. On-screen, multiple-choice reviews at the end of each segment reinforce important concepts and make learning fun.

#WE0082 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)



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To find more, login to your CORE account, and do an Advanced Search by producer - click on BBC Learning.

Secrets of the Human Body: Muscle Growth

As you grow, your body learns and adapts. For tennis player, Freya Christie, this learning process is all in pursuit of a specific goal - to be a top 50 player in the world. The demands of sport create great demands on your body so your skeleton and muscles have to adapt to avoid the risk of breaking. In Freya's case, her one arm is 20% larger and denser than the other.

What Makes a Body Joint Bend?

In this graphic animation, it shows how the contraction and relaxation of muscles connected to the bone cause the elbow to bend.

The Gut: Process of Digestion

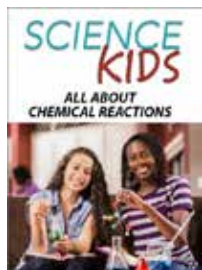
Presenter Michael Mosley gets up close and personal with his own digestive system to reveal what we look like inside. In this eye-opening and detailed exploration, using a tiny camera 'pill', Mosley takes us on an incredible journey through the digestive system, a tireless machine that continuously works. At University College Hospital, Moseley undergoes scans that lead to a 20 second film to show his gut in action.

Inside the Human Body: Incredible Feats

Michael Mosley shows how existence is a struggle and how, minute by minute, from your first breath to your last, your body performs countless small miracles to keep you alive. He meets remarkable people who demonstrate how well the human body adapts to extreme environments: Herbert, world-champion free-diver, who can hold his breath in the depths of the ocean for up to nine minutes; Wim, the Ice Man, who can swim in glacial lakes so cold that would kill a normal person and Debbie who has lived for 10 years on a diet of crisps.

All About Chemical Reactions

Grades 5–12 2017 22:24 min Wonderscape Entertainment

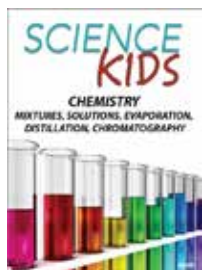


Learn all about chemical reactions with new, precise, yet easy-to-understand, definitions and explanations. What is the difference between a physical and chemical change in matter? What are the parts of a chemical reaction? How are chemical bonds affected in chemical reactions? What changes in properties occur as a result of chemical reactions? What changes in energy occur as a result of chemical reactions? What is the Conservation of Matter?

#WE0076 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)

Chemistry - Mixtures, Solutions, Evaporation, Distillation, Chromatography

Grades 6–12 2018 16:46 min Wonderscape Entertainment

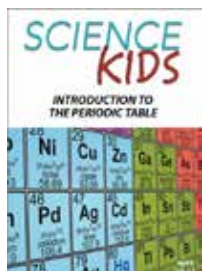


In this program, the basics of chemistry are introduced with a focus on 5th grade curriculum guidelines. What is a mixture? What are the different types of mixtures? What is a solution? What are evaporation, distillation and chromatography and how are each used to separate mixtures? The answers to all of these questions and many more are covered in depth with detailed graphics, diagrams and exciting video. On-screen, multiple-choice reviews at the end of each segment reinforce important concepts and make learning fun.

#WE0084 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)

Introduction to the Periodic Table

Grades 7-12 2018 16:42 min Wonderscape Entertainment



Learn all about the history and importance of the Periodic Table. What is the Periodic Table? Why is it vital to scientists? How is the Periodic Table organized and utilized? What are atoms, protons and neutrons?

The answers to these questions and many more are covered with detailed graphics, diagrams and exciting video, as well as on-screen, multiple-choice reviews at the end of each segment that reinforce important concepts and make learning fun.

#WE0092 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)



Meat the Future

Grades 9-12 2020 90 mins LizMars Productions Inc.

WINNER – Science World of Knowledge – Best Director

WINNER – Directors Guild of Canada – Best Editing Documentary

“Engrossing, Persuasive, Compelling.” – Variety

Imagine a world where real meat is produced sustainably without the need to breed, raise and slaughter animals. This is no longer science fiction, it's now within reach. At the forefront of this urgent frontier is Mayo Clinic trained cardiologist Dr. Uma Valeti, the co-founder and CEO of Upside Foods (previously Memphis Meats), the leading start-up of the “cultivated” meat revolution. From the world's first meatball which cost \$18,000 per pound to the first chicken fillet and duck a l'orange for half the cost, the film follows Valeti and his team over five years as the cost of production plummets, and consumers' eye the imminent birth of this timely industry.

#LMPI00 \$179: DVD or 3 yr Streaming Rights (K-12 Single Site)

Includes Discussion Guide and Educators Guide (PDF)



River Blue

Grades 9-12 2016 95 min Indiecan Entertainment

This award-winning documentary spans the globe to uncover the dirty secret behind the manufacturing of our blue jeans.

Internationally renowned river advocate Mark Angelo, who has paddled more rivers than perhaps anyone on Earth, journeys through

some of the world's most pristine waterways to some of its most polluted in an unprecedented global adventure. This quest originally set out to film the world's great rivers in an effort to protect them, but in the process, uncovered the dark underside of the global fashion industry. Through harsh chemical manufacturing processes and the irresponsible disposal of toxic chemical waste, the manufacturing of our clothing is destroying rivers globally.

#ICE063 \$179: DVD or 3 yr Streaming Rights (K-12 Single Site)



Sky Candy and the Real Universe Series

Grades 6-12 2020 18 x 11 min Trader Multimedia Inc.

A documentary series so spectacular, so immersive, and so real, it intimately connects us all. Open a window to the real universe in *Sky Candy*. Explore topics ranging from globular clusters to dark energy, Andromeda to Mars, and star birth to star death. *Sky Candy* is thought provoking and engaging and is guaranteed to change the viewer's perspective on the space around us. The narrative emphasizes the wonder and awe of the glorious universe, combining poetic musings, subjective impressions, and staggering facts, striking the perfect balance between imagination and explanation. The result is a viewing experience which is truly authentic and deeply resonant.

Series Order #TTV000 - \$1782 (18 titles): DVD or 3 year Streaming Rights (K-12 Single Site)

Individual titles: \$99 each (includes video, extended research sheets, quizzes, & quiz answer sheets)

Beautiful Worlds

Day after day, from eon to eon, life on Earth unfolds. The wonders of our planet are myriad. But it is only as we look out that we begin to understand what really powers our perfect blue world. The Sun is in the center of it all -- the wellspring of energy for our entire solar system, reaching out not just with gravity but energy into the space around it.

#TTV001 \$99: DVD or 3 year Streaming Rights (K-12 Single Site)

Mars on High

The Red Planet looms large in our solar system ... and in our dreams. It fills our minds with possibilities and promise, fuelling a hunger to embrace and explore. Our desire to attain this place has spurred us to build bigger and better telescopes, and propelled the space race. How many more generations of dreamers will pass before a human actually stands on the red planet?

#TTV002 \$99: DVD or 3 year Streaming Rights (K-12 Single Site)

Star Cities

Our search for meaning in the universe began thousands of years ago. With only our eyes, stars and planets led us on a journey of discovery. Then telescopes slowly revealed the galaxies, full blown metropolises of stars. These gigantic star cities glow brightly across time and space, taking on fantastical forms and showing us a universe much more complex than we had ever imagined.

#TTV003 \$99: DVD or 3 year Streaming Rights (K-12 Single Site)

Host City

The Milky Way is an ancient structure, forming out of the mists of the early universe. Its many brilliant vistas spark curiosity about the galaxy's past, present and future. This much is clear - the Milky Way is our home, the city of our cosmic address. It is a wellspring of human curiosity. And as we piece together it's dramatic story, we are also discovering our own.

#TTV004 \$99: DVD or 3 year Streaming Rights (K-12 Single Site)

Stellar Nurseries

Deep within galaxies lie wispy, luminous clouds called nebulae. Observed from a great distance, nebulae appear still and calm. Up close, they are as noisy and active as any nursery -- soaked with radiation and beset by fierce winds. Fuelled by gravity and time and exquisite purpose, these nebulae churn out stars, most with their own planets.

#TTV005 \$99: DVD or 3 year Streaming Rights (K-12 Single Site)

Chrysalis

There are stunning examples of giant molecular clouds all around the night sky. Fantastical objects with thick gas pillars taking on almost mystical shapes. These spectacular concentrations of gas and dust and everything that will ever be foretell the genesis of something new, something profound. And the first chapter in the story of us.

#TTV006 \$99: DVD or 3 year Streaming Rights (K-12 Single Site)

Made of Stars

Through early telescopes, the dying breaths of stars looked like small planet disks, and were called 'planetary nebulae'. Clearer views painted a more interesting picture. A glimpse into the great chain of creation: stars seeding the universe with the complex elements needed to make all of the amazing things we see around us, including planets ... and life.

#TTV007 \$99: DVD or 3 year Streaming Rights (K-12 Single Site)

Radiance in Death

To witness a supernova is to see a star suddenly appear in the sky, briefly outshining everything around it, then gradually fade back to nothing. Rare enough that over the course of human history, only a handful have been seen with the naked eye. Common enough that, with telescopes, we find their ghostly remnants scattered through the galaxies.

#TTV008 \$99: DVD or 3 year Streaming Rights (K-12 Single Site)

Jewel Boxes

Of all the things to see in the night sky, star clusters might be the most striking. Stars travelling together in space, like precious gems bound by gravity's chain. The incredible beauty of these jewel boxes of light makes them an ideal target for imaginative minds. The clusters tell stories about where stars come from, and ultimately, where we come from.

#TTV009 \$99: DVD or 3 year Streaming Rights (K-12 Single Site)

Ancient Objects

Globular clusters, spectacular assemblies of stars, sparkle like jewels at the galaxy's edge. The smallest contain ten thousand stars, and the largest, ten million. The stars here are ancient and pure, untouched by the processes of stellar evolution. Over time, gravity has pulled these stars into a ball shape. And now they glitter in the dusk, like dandelions gone to seed.

#TTV010 \$99: DVD or 3 year Streaming Rights (K-12 Single Site)

Island Universe

The Andromeda galaxy is our closest large galactic neighbour. On a dark, clear night, it is just visible to the unaided eye. Lying a staggering 2.4 million light years away, it appears as a fuzzy smudge against the black sky. Detailed velocity measurements of Andromeda reveal an ominous secret. It is more than just our nearest massive neighbour. It is our future.

#TTV011 \$99: DVD or 3 year Streaming Rights (K-12 Single Site)

Sky Mergers

Everywhere we look in the universe we see evidence of gravity's hand crushing star cities together, creating stunningly brilliant forms that inspire and complicate. Galactic collisions create star forming regions, and add to the galaxies finite supply of gas and dust, re-stocking and re-populating them for ongoing expansion projects.

#TTV012 \$99: DVD or 3 year Streaming Rights (K-12 Single Site)

Light Speed

Almost everything we see in the night sky – our Sun, the planets, the stars, the nebulae, the galaxies – is beyond our physical reach, and always will be. They are also beyond our time. When we look into space, we do not see objects as they are 'now'. Like beacons from another time, we see them as they were 'then' when their light started its long journey towards Earth.

#TTV013 \$99: DVD or 3 year Streaming Rights (K-12 Single Site)

The Quintessence

Most of the universe exists beyond our senses as dark matter and dark energy. These unknown entities contradict the immutable laws, and beg us to try and understand them. With the ultimate fate of the universe at stake, we can only imagine how these strange forces will reveal themselves in the years to come ... and alter our perception of reality forever.

#TTV014 \$99: DVD or 3 year Streaming Rights (K-12 Single Site)

Hubble on High

When humans took their first, tentative steps into space, astronomers began to imagine the power of a telescope not forced to peer through the atmospheric soup. They planned a small armada of space observatories. The most successful of them all, perhaps the most successful science mission in space history, is the Hubble Space Telescope.

#TTV015 \$99: DVD or 3 year Streaming Rights (K-12 Single Site)

Infrared Expanse

VISTA, the Visible and Infrared Survey Telescope for Astronomy, generates tremendous amounts of data doing large-scale surveys of the sky. VISTA was built to observe in a colour of light that the human eye cannot see – infrared. Infrared light can travel through dust clouds, allowing infrared telescopes to pull back the veils on some of the universe's most interesting objects.

#TTV016 \$99: DVD or 3 year Streaming Rights (K-12 Single Site)

Striking Forms

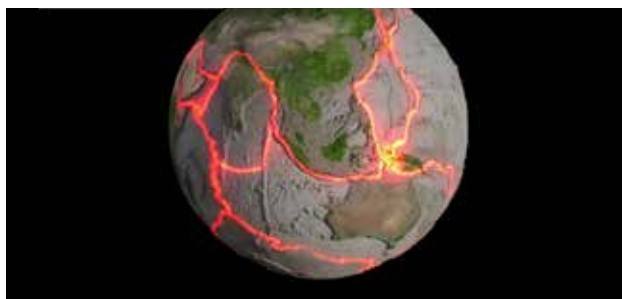
From Stonehenge and Jaipur to modern day observatories, humans create special places to watch the sky, to spend the long, lonely nights drawn by its beauty, and to uncover its secrets. And for every leap in technology, our view gets clearer, and the cosmos gets more astounding. From distant galaxy clusters to our closest neighbours, each object has a story to tell, stories that ultimately connect to us.

#TTV017 \$99: DVD or 3 year Streaming Rights (K-12 Single Site)

Signs of Life

Stuck on Earth, we have been able to learn many incredible things about the universe. We have even figured out that there is star dust in our blood. Once humans established this profound connection to the cosmos, the next question was obvious: if we are here, do others exist? This simple question drives much of modern-day astronomy.

#TTV018 \$99: DVD or 3 year Streaming Rights (K-12 Single Site)



The Study of the Earth Series

Grades 6-12 2022 14 min ea Kunsapsmedia Group

This 3-part series will provide students with an excellent understanding important concepts such as the rock cycle, the three main types of rocks and the key elements of minerals. The series also introduces landforms along with the concepts of plate tectonics, erosion and weathering. *Includes PDF Teacher's Guides.*

Series Order #KMG040 \$389.85: DVD or 3 yr Streaming Rights (K-12 Single Site)

Earth's Surface - Minerals

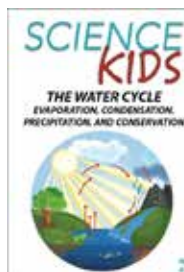
Geology is the study of the Earth and its surface. In this video, we learn about minerals - an important building block of our planet. They are found in rock, in the Earth's crust and in the soil. And many key elements are minerals, such as coal. This video investigates what minerals are, how they are formed and how they are classified. We learn about the crystalline forms of minerals and terms such as streak and silicate minerals. #KMG035 \$129.95: DVD or 3 yr Streaming Rights (K-12 Single Site)

Earth's Surface - Landforms

There are features on Earth known as "landforms": mountains, plains, lakes, islands, and many more. In this video, we'll find out about landforms and how they originated. We'll be looking at mountains, hills, valleys, plains, plateaus, watercourses, and landforms found along near coastal areas. We'll explain concepts such as plate tectonics, erosion, weathering, and uplift. How do glaciers shape the landscape below? How are plains formed? What's the difference between a bay and a gulf? This video will tell us! #KMG038 \$129.95: DVD or 3 yr Streaming Rights (K-12 Single Site)

Earth's Surface - Rock

What is rock? Where did it come from? This video will show us. We'll be finding out about the three main groups of rock — igneous, sedimentary, and metamorphic — how they are formed and what characteristics they have. We'll also see some amazing rock formations, like Grand Canyon and Devils Tower. And we'll get to know all about the Rock Cycle. #KMG039 \$129.95: DVD or 3 yr Streaming Rights (K-12 Single Site)



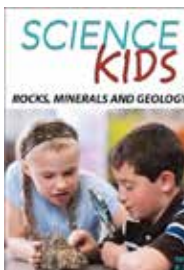
The Water Cycle: Precipitation, Evaporation, Condensation, Conservation

Grades 2-6 2021 22:29 min

Wonderscape Entertainment

Learn all about the water cycle. What do the terms "evaporation," "condensation," and "precipitation" mean? Where is most of the earth's water found? What is a glacier? How can we conserve water?

The answers to all of these questions and more are covered in depth with detailed graphics, diagrams and exciting video. #WE0100 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)



Rocks, Minerals and Geology

Grades 3-8 2017 18:59 min

Wonderscape Entertainment

What are the similarities and differences between rocks and minerals? What are the properties used by scientists to identify minerals? What are the environmental conditions during the formation of sedimentary, igneous and metamorphic rocks? What are the physical changes that occur in rocks and minerals as a result of weathering and erosion? How are rocks and minerals used in our everyday lives?

#WE0097 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)



Earth and Our Solar System

Grades 4-8 2016 4:50 min

Wonderscape Entertainment

We learn all about Earth and our solar system through detailed graphics, diagrams, and exciting video: the Milky Way, the components of our solar system, the role of gravity in our solar system and the Milky Way Galaxy, the characteristics of the inner and outer planets, orbits, the asteroid belt and the gas present on the sun.

#WE0085 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)



Earth's Materials And Systems

Grades 6-12 2016 22:03 min

Wonderscape Entertainment

This program explores the characteristics of Earth's four systems: Geosphere, Biosphere, Hydrosphere and Atmosphere. Understand how the Earth's systems interact with each other. Detailed graphics, diagrams, and exciting video, as well as on-screen, multiple-choice reviews at the end of each segment reinforce important concepts.

#WE0086 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)



Earthquakes Around the World

Grades 6-12 2021 18:37 min

Wonderscape Entertainment

What is an earthquake? What causes an earthquake? What are plate tectonics and subduction? What are divergent, convergent, and transform boundaries? What are the core, mantle and crust of the earth? What are the biggest earthquakes of all time, and what have seismologists learned from them?

#WE0087 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)

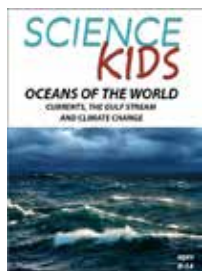
EARTH SCIENCE

Oceans of the World:

Currents, The Gulf Stream and Climate Change

Grades 6-12 2022 21:40 min

Wonderscape Entertainment



In this high-definition program, learn all about ocean currents and how climate change is affecting them. What is the Coriolis Effect? What important role does the Gulf Stream play in regulating ocean water temperatures? What is the Gulf Stream Collapse? How can we save our oceans?

The answers to all of these questions and more are covered in depth with detailed graphics, diagrams and exciting video that reinforce important concepts and make learning fun.

#WE0108 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)

Our Changing World of Weather:

El Niño and La Niña

Grades 6-12 2022 18 min

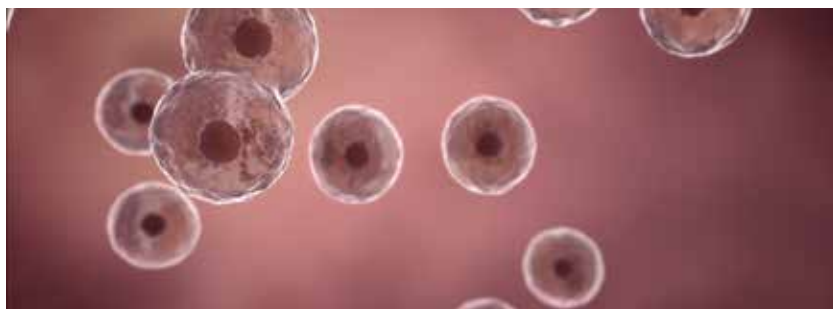
Wonderscape Entertainment



In this program, learn all about our changing world of weather. What is an El Niño year? What is a La Niña year? What does ENSO-neutral mean? How is climate change affecting the ocean currents, and what can we do to prevent it? The answers to all of these questions and more are covered in depth with detailed

graphics, diagrams and exciting video that reinforce important concepts and make learning fun.

#WE0109 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)



The Development of Life on Earth Series

Grades 6-12 2019 15 min ea Kunskapsmedia Group

This series gives a great overview of the birth of the Earth, and the emergence and evolution of life on Earth. Journey back through time to see how through billions of years of evolution and adaptation to understand the development and survival of living organisms. From the significance of the nebular hypothesis to Darwin's theory of natural selection, this 3-part series will give students a thorough understanding of the development of life.

Series Order #KMG020 \$389.85 (3 programs):
DVD or 3 yr Streaming Rights (K-12 Single Site)

Early Life

What were the first living organisms on Earth? In this episode, we travel billions of years backwards in time to learn how Earth was created. We hear about the significance of the nebular hypothesis theory and how Earth has changed since its inception. We learn about the formation of our solar system, development of Earth's land, oceans and atmosphere, and tectonic plate movements.

#KMG021 \$129.95: DVD or 3 yr Streaming Rights (K-12 Single Site)

Life Through the Ages

In this episode we will learn about the geological time scale -what was the climate like a billion years ago and what living organisms existed on Earth at that time? Why did the dinosaurs actually die out? We discuss concepts such as Precambrian, Paleozoic, and Mesozoic, and learn what an Archaeopteryx is. We will explore all these things in the second part.

#KMG022 \$129.95: DVD or 3 yr Streaming Rights (K-12 Single Site)

Evolution and Darwin

In this episode we take a closer look at Charles Darwin -who was he and why is he important to our understanding about the development of life? We explore what evolution is and the meaning of natural selection. Why are concepts such as population, competition, and adaptation important to the development and survival of living organisms? We will learn all this in the third and final part of Development of Life.

#KMG023 \$129.95: DVD or 3 yr Streaming Rights (K-12 Single Site)



Big Bang: The Theory and the Origin of the Universe

Grades 6-12 2017 14 min Kunskapsmedia Group

The majority of today's astronomers and scientists support the theory we call the Big Bang. But what does the theory actually entail? How did it develop? Who was Edwin Hubble and what are spectral lines? In this film, we explore the background of the Big Bang theory. Was it really a bang? What different substances and particles were formed right after the Big Bang? We will explore these things. We will also find out how nebulae, stars, planets and solar systems were created. And finally, we will learn what evidence exists that supports this theory. What evidence is there that the Big Bang theory could be true?

#KMG034 \$129.95: DVD or 3 yr Streaming Rights (K-12 Single Site)



Climate Displacement & Sustainable Solutions Streaming Playlist

Grades 9-12 2017/2018 43 x 2-6 min segments Elizabeth Miller

3 year Streaming Rights (K-12 Single Site) - \$450 - Order #SHOE01

There has never been a better time to rethink our relationship to our shorelines. We are seeing one of the greatest migrations of all times towards coastal cities at precisely the moment we should consider retreat. 70% of the world's coastlines are vulnerable to sea level rise.

The surge of coastal tourism, the increased dumping of industrial waste, and development projects in wetlands are threatening the very ecosystems that protect us from flooding. This is exacerbated by the impacts of climate change with rising seas, higher temperatures, and violent storms. What can we learn from those living on the coast, the frontline of environmental change?

From remote islands to dense urban cities, meet 43 people from 9 countries, on the frontlines, taking action, discovering solutions for a sustainable future.

Includes the following segments:

- | | |
|---|--|
| 1. Youth Leaders of the Salish Nation 2:21 | 23. Kidneys of the Harbour 3:37 |
| 2. Walking Past Shorelines 3:17 | 24. Glacier Nation 5:02 |
| 3. Effective Allies 2:13 | 25. Getting to Zero Trash on Carti Sugdup 3:25 |
| 4. To the Main Land: Carti Sugdup's Solution 4:22 | 26. Game Changer 3:43 |
| 5. The High Cost of Ship Breaking 6:24 | 27. Fueling the Sunshine State 2:46 |
| 6. The High Cost of Expansion 3:17 | 28. Forecasting Change 6:44 |
| 7. The Future of Coral Reefs 2:49 | 29. Ecologies of Change 3:00 |
| 8. The Ciliwung River 3:53 | 30. Drowning Cultures 3:06 |
| 9. Surrey: Planning for the Future 3:32 | 31. Dreaming of Trees 5:01 |
| 10. Science Fiction Futures 2:50 | 32. Displaced Lives 4:48 |
| 11. Salt Resistant Seeds 3:27 | 33. Developing a Barrier Island 4:08 |
| 12. Salt Marshes of New Jersey 2:57 | 34. Confronting Disaster 4:26 |
| 13. Rethinking Beach Replenishment 3:15 | 35. Citizen Regulators at Turkey Point 3:27 |
| 14. Resisting Arctic Oil 4:48 | 36. Beyond the Built 4:22 |
| 15. Resilient Cities 2:38 | 37. An Acidifying Ocean 3:00 |
| 16. Reclam the Bay 3:48 | 38. Age of Stupid |
| 17. Protectors of the Mangroves 3:33 | 39. A Totem Pole Journey 3:18 |
| 18. People Powered Policies 3:39 | 40. A Sinking Island 3:30 |
| 19. Mapping Heritage 4:40 | 41. A Fragmented Shoreline 2:02 |
| 20. Love the Everglades 2:37 | 42. A Floating Future 6:23 |
| 21. Living on a Sandbar 4:01 | 43. A Climate Reporter 3:51 |
| 22. Lessons on the Coast 4:04 | |





Restoration Planet Series (Season 2)

Grades 9-12 2022 Robert E Moberg Films

Restoration Planet is an educational series with hosts and nationally known broadcast filmmakers Robert and Vanessa Moberg. They travel the world to discover the amazing individuals and groups working to restore our planet.

Series Order #REM003 \$891 (9 programs):

DVD or 3 yr Streaming Rights (K-12 Single Site)

How to Build Your Own Forest

Features Jim Good from Prince George, BC. who has built a beautiful nature park consisting of native Canadian trees.

#REM004 \$99: DVD or 3 yr Streaming Rights (K-12 Single Site)

Incredible Shoreline Restoration

Travel to NF to meet Shawn Bath to discuss his Clean Harbours Initiative.

#REM005 \$99: DVD or 3 yr Streaming Rights (K-12 Single Site)

Seabird Rescue

An unexpected seabird rescue leads filmmakers Robert and Vanessa Moberg on their next inspiring story in Newfoundland.

#REM006 \$99: DVD or 3 yr Streaming Rights (K-12 Single Site)

Island in the Sky: Cahuasqui, Ecuador

Visit Cahuasqui, a very remote village high in the Ecuadorian Andes where a large mining operation threatens the way of life.

#REM007 \$99: DVD or 3 yr Streaming Rights (K-12 Single Site)

Youth-led Clean-Up: Rio Carrizal, Ecuador

This inspiring youth-led river cleanup takes place on the Rio Carrizal in Ecuador.

#REM008 \$99: DVD or 3 yr Streaming Rights (K-12 Single Site)

On the Trail of Rare Primates - Ecuador

Track one of the world's rarest primates, the white-fronted capuchin in the Pacoche Rainforest in Ecuador.

#REM009 \$99: DVD or 3 yr Streaming Rights (K-12 Single Site)

Sea Turtle Rescue in Ecuador

An inspiring grassroots sea turtle rescue program in Ecuador.

#REM010 \$99: DVD or 3 yr Streaming Rights (K-12 Single Site)

Secrets of the Osa Peninsula - Costa Rica

We meet entomologist Jim Cordoba Alfaro who helps preserve what is known as the most bio intense area on the planet.

#REM011 \$99: DVD or 3 yr Streaming Rights (K-12 Single Site)

Wild Costa Rica

Showcases the incredible wildlife and scenic beauty of this country.

#REM012 \$99: DVD or 3 yr Streaming Rights (K-12 Single Site)

See www.mcintyre.ca for Season 1 of *Restoration Planet*

12th Hour

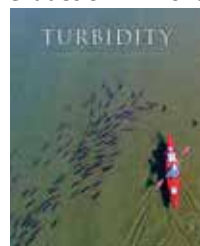
Grades 9-12 2021 52 min Video Project

Can humans solve the climate crisis? *12th Hour* delves into humanity's psychological resistance to ecological change, and why such changes are needed in order to avoid an irreversible cataclysm.

#TVP107 \$295: DVD or 3 yr Streaming Rights (K-12 Single Site)

Turbidity

Grades 9-12 2019 52 min Robert E Moberg Films

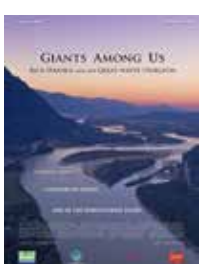


The devastating collapse of the 2014 Mount Polley mine tailings pond dam in central British Columbia was the worst environmental disaster in Canadian history. Through a poetic lens we see the convergence of a varied group of individuals affected by the disaster and share their unique connections to this special place.

#REM001 \$159: DVD or 3 yr Streaming Rights (K-12 Single Site)

Giants Among Us

Grades 9-12 2017 53 min Robert E Moberg Films



We follow Rick Hansen and a visionary group of Canadians working together to help save the enigmatic White Sturgeon of British Columbia's Fraser River. Rick shares very personal, life changing moments from his childhood and adult life. The film highlights these incredible fish, some of whom may be 150 years old, as well as the importance of preserving and protecting their habitat.

#REM002 \$129.95: DVD or 3 yr Streaming Rights (K-12 Single Site)

Climate Change Babies

Grades 9-12 2019 41 min Jocelyn Demers



Climate Change Babies takes a hopeful approach to the climate crisis by focusing on people taking action to secure a better future for their children. During the Covid-19 pandemic, parents and grandparents

from BC exchanged profound information about climate change and the importance of nature for their babies and children. The film features members of the Babies for Climate Action group, as well as separate experts, activists and Indigenous leaders.

#JODE00 \$159: DVD or 3 yr Streaming Rights (K-12 Single Site)

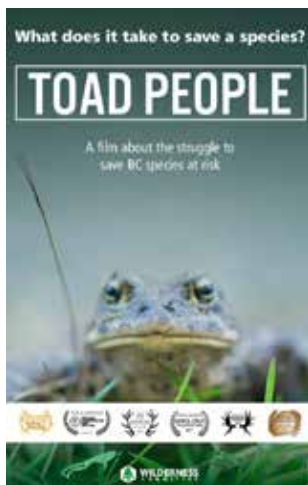
The Future of Birds

Grades 9-12 2019 41 min Jocelyn Demers



With the loss of global biodiversity and climate change in mind, the world's best ornithologists are understanding how important birds are for ecosystems and economies. In this documentary, you will discover recent research conclusions with scientists and ornithologists from around the planet. You will share the passion and the love of birders and admire the most elegant and mobile creatures of the natural world.

#JODE01 \$159: DVD or 3 yr Streaming Rights (K-12 Single Site)



Toad People: What Does it Take to Save a Species?

Grades 7-12 2018 CC 52 & 76 min versions Wilderness Committee

WINNER IMPACT AWARD – Wildscreen Film Festival 2018

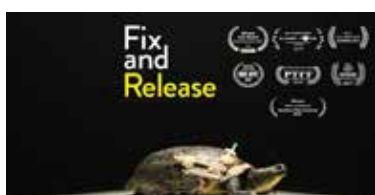
Every year in early summer when the weather starts to warm up, a rural road in the community of Ryder Lake in Chilliwack, BC starts moving. Tiny dark spots cover the road like a carpet. Fingernail-sized juvenile western toads have begun their migration – from the wetlands where they were born to the forest where they live. For the toadlets, the journey is hazardous. Many of them will never get to the other side of the road.

Local Chilliwack resident Steve Clegg grew up with toads – catching tadpoles in his parents' pond, stumbling upon juveniles in his garden and gradually learning to look after species at risk in his backyard. Clegg and a group of local residents became concerned about the toads' plight and looked for ways to help the species survive in an environment where urban development is taking over.

Toad People tells the story of people like Steve Clegg and other families and communities who are taking action to save the wildlife in their backyard, whether it's toads, mountain caribou, rattlesnakes or barn owls.

52 min version #010040 \$179: DVD or 3 yr Streaming Rights (K-12 Single Site)

76 min version #010041 \$189: DVD or 3 yr Streaming Rights (K-12 Single Site)



Fix and Release

Grades 6-12 2017 16 min Junction Box J

Jury Prize - Water Docs Toronto

Audience Award Best Short San Francisco Documentary Festival

Best in Festival - Yorkton Film Festival

Most freshwater turtle species in Canada are at risk. Habitat destruction, car and boat hits, accidental catch, predator attacks, malicious humans; turtles face truly staggering odds. The

Ontario Turtle Conservation Centre is trying to tilt the odds back.

FIX AND RELEASE explores the Ontario Turtle Conservation Centre, a small turtle trauma centre in Peterborough Ontario Canada as it fights to even the odds for survival that freshwater turtles face in a modern world. Dr. Sue Carstairs leads a team of dedicated staff and volunteers as they develop their own ground-breaking approach to reptile medicine.

#IBJ000 \$129: DVD or 3 Year Streaming Rights (K-12 Single Site)



Their Land: Last of the Caribou Herd

Grades 7-12 2016 CC 10 min Wilderness Committee

Across Canada, many caribou populations are in deep trouble. In the South Peace region of Northern British Columbia, logging, oil and gas exploration, and coal mining have significantly altered the landscape, opening up the forest and pushing mountain caribou away from their traditional range. In the face of imminent extinction, First Nations are taking extreme measures

to save their caribou herds. The film intimately profiles the connections between First Nations and mountain caribou, explores the threatened habitat, and the choices that have to be made to conserve this Canadian iconic species.

#010042 \$79: DVD or 3 yr Streaming Rights (K-12 Single Site)



On the Brink: W5

Grades 9-12 2019 22 min CTV

Nestled in a hard-to-reach, secret location, high in the alpine of British Columbia's South Peace River region is what's being called a last-ditch effort to save the local caribou herd. After decades of steep declines, they are on the brink of local extinction. Local industries like forestry and mining have taken their toll on the landscape and the caribou. Around the clock, caretakers from the West Moberly and Sahtleau First Nations stand guard, keeping watch over the vulnerable animals.

#CTV793 \$129.95: DVD or 3 year Streaming Rights (K-12 Single Site)



White Water Black Gold - A Nation's Water in Peril

Grades 9-12 2011 57 min White Gold Productions

"Highly Recommended. - Educational Media Reviews Online

"Eye-opening." – Booklist

An investigative point-of view documentary that follows David Lavallee on his three-year journey across western Canada in search of answers about the activities of the world's thirstiest oil industry: the Tarsands.

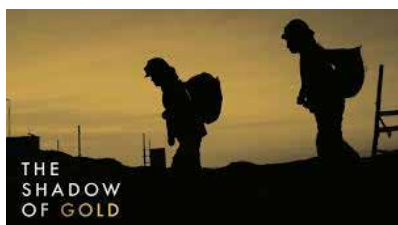
#WGP001 \$150: DVD or 3 year Streaming Rights (K-12 Single Site)

Includes PDF Study Guide

ENVIRONMENTAL SCIENCE

The Shadow of Gold

Grades 9-12 2020 79 min Kensington Communications
"... a very important film that should be seen." – David Suzuki



Do you wear a gold ring? Do you know where the gold in that ring comes from? *The Shadow of Gold* takes an unflinching look at how the world's favourite heavy metal is extracted from the

earth. The film explores both sides of the industry: the big-time mining companies that dig deep and lop off mountaintops to extract gold from low-grade ore, and the small-time miners – an estimated 20 million people in the world's poorest nations – who extract gold by hand, often producing just enough to survive.

#KC0111 \$250: DVD or 3 Year Streaming Rights (K-12 Single Site)

Nature's Cleanup Crew

Grades 7-12 2020 55 min Kensington Communications



Nature's Cleanup Crew tells the story of the busy scavengers who live among us in our cities, recycling the mountains of waste our consumer society leaves behind. To us, it's garbage. To them,

it's dinner. With the help of thoughtful and passionate scientists who have come to understand and love them, we find out what makes scavengers tick. We debunk myths about them. We ask... What adaptations have they evolved to do their job? What benefits do they provide humanity? How can we humans work with them, so that they can do their job even better?

#KC0110 \$159 : DVD or 3 year Streaming Rights (K-12 Single Site)

Rock Paper Fish

Grades 7-12 2019 28 min Wild Confluence Media



Journey deep into the rainforest of southeast Alaska, where life is inseparable from the age-old rhythms of the Chilkat River. Every year, all five species of salmon return to the Chilkat, drawing the

world's largest gathering of bald eagles, grizzly bears & tourists. The salmon also define life for two communities: The ancient Tlingit village of Klukwan and the scrappy commercial fishing town, Haines. Meanwhile, a modern-day gold rush is under way. Some locals are eager for a mining boom, while others fear that the risks to the Chilkat Watershed far outweigh the economic benefits.

#WCM002 \$179: DVD or 3 year Streaming Rights (K-12 Single Site)

A Plastic Ocean

Grades 6-12 2018 22 min Passion River Films



A Plastic Ocean brings to light the consequences of our global disposable lifestyle. We thought we could use plastic once and throw it away with negligible impact to humans and animals. That turns out to be untrue. This program documents the global effects of plastic pollution and introduces workable technology and policy solutions that can, if implemented in time, change things for the better.

#PR3532 \$159: DVD or 3 Year Streaming Rights (K-12 Single Site)

RiverBlue

Your blue jeans are killing the planet!

Grades 6-12 2016 95 min Indiecan Entertainment Inc.

BEST Documentary - Blue Ocean Film Festival and Conservaiton Summit



This award-winning documentary spans the globe to uncover the dirty secret behind the manufacturing of our blue jeans. Internationally renowned river advocate Mark Angelo, who has paddled more rivers than perhaps anyone on Earth, journeys through some of the world's most pristine waterways to some of its most polluted in an unprecedented global adventure. This quest originally set out to film the world's great rivers in an effort to

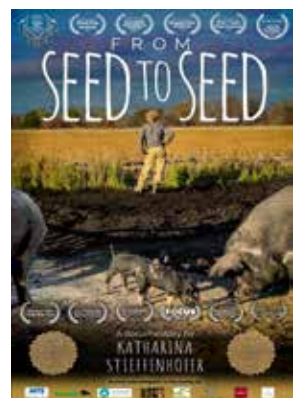
protect them, but in the process, uncovered the dark underside of the global fashion industry.

#ICE063 \$179: DVD or 3 Year Streaming Rights (K-12 Single Site)

From Seed to Seed

Grades 6-12 2018 86 min Growing Local Productions

Winner: Best of the Fest, 2019 Colorado Environmental Film Festival; Seneca Film Festival; 2019 Soo Film Festival



The joy and heartfelt struggle of a Canadian family to sustain their organic farm in a changing climate. Depicting large as well as small operations, the film shows what farmers are up against, and how determined many are to adopt environmentally responsible strategies, despite the seductive conveniences of modern agricultural practices. *From Seed to Seed* provides a hopeful look at a modern movement that will prove vital in

turning the tide of environmental destruction.

#GLP000 \$250: DVD or 3 Year Streaming Rights (K-12 Single Site)



Eco-Highway: A New Approach

Grades 9-12 2020 29 min

Pinegrove Productions

A video featuring actions, challenges and lessons learned in protecting species at risk in the construction of the Rt. Hon.

Herb Gray Parkway, Windsor, Ontario. The 11km multi-lane access road would bisect three local communities and parts of the Ojibway prairie complex - one of the most endangered vegetation communities on earth. This ecosystem is home to thousands of rare, critically endangered species of plants and animals making any disruption to the habitat potentially catastrophic.

#PPE032 \$99: DVD or 3 year Streaming Rights (K-12 Single Site)



Ecology Transforms Youth

Grades 6-12 2019 35 min Youth

and Eco Restoration

Journey with several youth as they explore BC's Comox Valley watersheds and ecosystems.

The Youth & Ecological Restoration (YER) program was created by Wendy Kotilla. Guided by nature, YER engages vulnerable youth with the ecology of their home place through restoration, science, ecotherapy and mentoring. Over 340 participants have worked with local researchers and environmental groups.

#ECR001 \$129: DVD or 3 year Streaming Rights (K-12 Single Site)

Troubled Waters: W5

Grades 9-12 2016 20 min CTV



"TROUBLED WATERS" takes viewers to local communities currently facing off against the bottled water industry, as they fight to protect the precious natural resource from flowing out of their communities. W5's Victor

Malarek investigates how Swiss transnational food and drink giant Nestlé is pumping a staggering 1.7 billion litres of fresh water out of wells in Ontario each year. Across the country in Hope, British Columbia, Nestle is pumping 311 million litres a year out of wells, with some local residents complaining that the water is being extracted only to be given away for free.

#CTV697: DVD or 3 year Streaming Rights (K-12 Single Site)

Trouble in Paradise: W5

Grades 9-12 2016 20 min CTV



In 2013, the government of British Columbia granted the owners of a landfill site located directly uphill from Vancouver Island's Shawnigan Lake a permit to dump 100,000 tonnes of contaminated soil each

year for the next 50 years. *Trouble in Paradise* is an examination into the fight to shut down the watershed dump site upstream of Shawnigan Lake – a lake residents have relied upon for their drinking water for generations.

#CTV685: DVD or 3 year Streaming Rights (K-12 Single Site)

The Art of Nature Series

Grades 9-12 2018 2 x 60 min ea Scorpion TV

Many plants and animals have found ingenious ways to adapt in order to survive in an ever-changing world. Some of nature's inventions have been the inspiration behind the development of new technology, smart design and ground-breaking medicines.

Series includes:

Life Without Water

Biologist Claes Andrén delves into extreme environments, where ingenious species have learned to thrive.

#SCTV50 \$175: DVD or 3 year Streaming Rights (K-12 Single Site)

Secrets of the Forest

By examining species both living and dead, from plants that survive only if the forest burns, to frogs that have developed important medicinal properties, this program unearths the many reasons that forests have found a way to arouse the imagination of human beings for thousands of years.

#SCTV51: \$175: DVD or 3 year Streaming Rights (K-12 Single Site)

The Nature Makers

Grades 7-12 2020 69 min Video Project

WINNER - Colorado Environmental Film Festival



In the 21st century, defending the wild often paradoxically requires technology and aggressive human intervention. *The Nature Makers* is a moving portrait of passionate people and the extraordinary creatures whose existence they fight for. The film is a story of how we find ourselves on the brink of losing so much of the natural world, yet it charts an optimistic, though unmistakably challenging, path forward. The film looks at 3 different stories titled: Sky, Water, and Land.

#TVP086 \$159: DVD or 3 year Streaming Rights (K-12 Single Site)



To The Ends of the Earth

Grades 9-12 2017

White Gold Productions

Narrated by Emma Thompson, this documentary examines the rise of extreme energy extraction in Canada and its impact on the environment, economy, and local communities. The fossil fuel industry's intensive hunt for unconventional non-renewable resources, including Arctic drilling and shale gas fracking, also gives rise to a formidable array of scientists,

authors and activists who envision a post-growth economic future premised on co-operation, social justice and ecological stewardship.

55 min version: #WGP000 \$195: DVD or 3 year Streaming Rights (K-12 Single Site)

80 min version: #WGP008 \$250: DVD or 3 year Streaming Rights (K-12 Single Site)

Also available in French: #WGP000FR



Striking Balance, Season 2

Grades 7-12 2020 9 episodes x 50 min ea
Striking Balance Inc.

Striking Balance, Season 2, explores inspiring stories from nine of Canada's breathtaking UNESCO biosphere reserves, where people are overcoming daunting challenges to create a sustainable future.

Season 2 dives into cutting-edge, nature-based solutions to flooding in Manitoba, drought on Vancouver Island, and the devastating decline of the ubiquitous yellow perch in Quebec. There are unexpected stories about aggregate companies and aluminum makers learning from the mistakes of the past and imagining innovative ways to co-exist with

nature. There are stories about Nova Scotia communities boldly adapting to a changing climate, and next-generation methods for sustainably controlling invasive species.

But the truly inspiring tales are the ones that prove it's possible to go beyond sustainability, to restore the lands, waters and biodiversity of these magnificent places, without excluding one of their most important native species – humans. *Striking Balance, Season 2* will challenge what you think you know about the natural world, and our place in it.

Series of 9 titles: \$1341: DVD or 3 year streaming rights (K-12 single site) - Order #LIV031

Individual titles: \$159 each

Episode 1 - Tsá Tué Biosphere Reserve, NT

Troubled by a history of uranium mining, the Sahtu Dene of Great Bear Lake create North America's largest biosphere reserve to protect its pristine waters for all of humanity.

#LIV032 \$159: DVD or 3 Year Streaming Rights (K-12 Single Site)

Episode 2 - Frontenac Arch Biosphere Reserve, ON

The heart of eastern North America's last, great forest corridor is threatened by development, but the people of Ontario's Frontenac Arch Biosphere Reserve are determined to keep it intact.

#LIV033 \$159: DVD or 3 Year Streaming Rights (K-12 Single Site)

Episode 3 - Manicouagan-Uapishka Biosphere Reserve, QC

Quebec's Manicouagan-Uapishka Biosphere Reserve prides itself on working with industry toward a sustainable future. But their dream is put to the test when their biggest project is jeopardized by North America's largest hydro-electricity reservoir.

#LIV034 \$159: DVD or 3 Year Streaming Rights (K-12 Single Site)

Episode 4 - Riding Mountain Biosphere Reserve, MB

After suffering through repeated, tsunami-like floods north of Manitoba's Riding Mountain, the Von Bargens lead the call to restore nature's flood protection systems.

#LIV035 \$159: DVD or 3 Year Streaming Rights (K-12 Single Site)

Episode 5 - Mount Arrowsmith Biosphere Region, BC

Following unprecedented droughts, the people of BC's Mount Arrowsmith Biosphere Region begin their quest to restore the water balance.

#LIV036 \$159: DVD or 3 Year Streaming Rights (K-12 Single Site)

Episode 6 - Lac Saint-Pierre Biosphere Reserve, QC

The yellow perch, a key indicator of the health of Quebec's Lac Saint-Pierre, is in serious trouble. But this little fish is inspiring the big change needed to restore the lake to its former glory.

#LIV037 \$159: DVD or 3 Year Streaming Rights (K-12 Single Site)

Episode 7 - Beaver Hills Biosphere Reserve, AB

A little-known, but remarkable region of wetlands, called the Beaver Hills, are at risk of being swallowed by a growing Edmonton. As home to the world's most important herd of buffalo, people here are uniting to keep the Hills intact.

#LIV038 \$159: DVD or 3 Year Streaming Rights (K-12 Single Site)

Episode 8 - Niagara Escarpment Biosphere Reserve, ON

In Ontario's Niagara Escarpment Biosphere Reserve, scientists, climbers and even quarry companies come up with innovative ways to co-exist with, restore and enhance the natural world.

#LIV039 \$159: DVD or 3 Year Streaming Rights (K-12 Single Site)

Episode 9 - Southwest Nova Biosphere Reserve, NS

Under siege from invasive species, the people of the Southwest Nova Biosphere Reserve innovate new ways to hold back, eradicate, and even eat the invaders.

#LIV040 \$159: DVD or 3 Year Streaming Rights (K-12 Single Site)

Striking Balance, Season 1 is also available - see www.mcintyre.ca for more information and FREE previews.

Last Fish, First Boat

Grades 6-12 2021 6 min Jennifer Verma



When the cod fishery collapsed, fisherman Eugene Maloney's livelihood is yanked out from underneath him but every bit the enterprising Newfoundlander, Gene marks the end of the fishery with a new beginning. He pivots to boatbuilding, a self-taught practice he continues today. Set in Bay Bulls, NF, *Last Fish, First Boat* revisits the 1992 cod moratorium through a fisherman's eyes. It's an

old story that holds new meaning today, as a global pandemic put Canadians from coast-to-coast-to-coast out of work, stuck at home and needing to pivot. Like Gene's story, where there's will, Canadians will find their way. A wonderful short animated story for environmental studies, social studies, geography, biology, English, language arts, creative writing, and art.

#JVER00 \$79: DVD or 3 Year Streaming Rights (K-12 Single Site)
Includes PDF resource guide



Trees, Youth, Our Future Series
Grades 7-12 2018 46 min each
Pinegrove Productions
A 2-part series that tells the enduring story of forest stewardship in Ontario.

Episodes include:

Episode 1: The Road to Sustainability

Explores the history of our relationship with the forests – from being home to Indigenous peoples to being an obstacle to settlement for Europeans. It looks at the evolution from exploitation to stewardship, culminating in Ontario becoming a leader in sustainable forest management.

#EOMF01 \$99: DVD or 3 yr Streaming Rights (K-12 Single Site)

Episode 2: New Forests, New Stewards: A Road Forward

This episode examines current sustainable forest management on crown and private lands, and in urban forests. It highlights some of the management challenges, as well as the exciting opportunities for youth to get involved.

#EOMF02 \$99: DVD or 3 yr Streaming Rights (K-12 Single Site)

Irreparable Harm

Grades 9-12 2018 20 min Wild Confluence Media



The Tlingit people have called the vibrant coastline of Southeast Alaska home for over 10,000 years and continue to practice a way of life intimately tied to the ocean

and the largest remaining temperate rainforest on earth. Now, contamination from industrial mining is threatening the safety of the wild food sources that make Alaska so unique. *Irreparable Harm* gives powerful voice to the Alaska Native communities and conservation groups standing up to protect the cultural and ecological values that make this magnificent marine ecosystem an irreplaceable treasure.

#WCM000 \$149: DVD or 3 yr Streaming Rights (K-12 Single Site)

Last Stand: The Vanishing Caribou Rainforest

Grades 6-12 2017 33 min David Muskowitz



Last Stand: The Vanishing Caribou Rainforest is a cinematic journey into the tragically threatened world of endangered mountain caribou, their home in the world's largest remaining inland

temperate rainforest, and the critical human choices that will ultimately decide the fate of this stunning ecosystem.

#DM0000 \$149: DVD or 3 yr Streaming Rights (K-12 Single Site)



Canada's Natural Resources Series: Creating a Sustainable Environment

Grades 6-12 2017 3 x 20 min ea LeMay Media

Award-winning Métis filmmaker Matt LeMay explores three of Canada's natural resources - forests, water and wildlife - all a vital part of the earth's incredibly balanced and interconnected ecosystem that miraculously repairs and maintains itself. However, human beings have affected the earth to the point where it can no longer restore balance in some ecosystems. We rarely give thought to how we use and misuse the forests, water and wildlife. We must act responsibly and in a manner that allows for the on-going replenishment of the earth's resources. Environmental sustainability is using the earth's resources in a way that will ensure that they will be available for future generations. We need to create an environment that sustains life, supports progress, and plans for renewal. Our economic activities must not deplete the Earth's resources and they must respect the Indigenous communities and cultures that have inhabited this country for thousands of years.

Series Order #LM0012 \$297 (3 titles):
DVD or 3 yr Streaming Rights (K-12 Single Site)
Individual titles: \$99 each

Series consists of:

- #LM0013 Forests
- #LM0014 Water
- #LM0015 Wildlife



6 Simple Machines - Wedge, Screw, Lever, Pulley, Inclined Plane, Wheel & Axle
 Grades 2-6 2021 20:09 min
 Wonderscape Entertainment
 Learn all about six simple machines - the wedge, screw, lever, pulley, inclined plane, and wheel & axle. Understand how these machines work, the basic physics involved, and study real-world examples of these

machines all around us!

#WE0114 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)



Technological Solutions: Simple Machines
 Grades 3-8 2022 14 min
 Kunskapsmedia Group
 Have you ever used a screw? Pulled something up a ramp? Or used a bottle opener? In physics and technology, we call these "simple machines". But what are they, and how do they work? Learn about the forces behind these simple machines and see

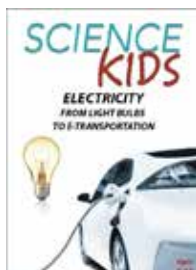
clear examples of how these technical solutions help us with all sorts of things.

#KMG005 \$129.95: DVD or 3 yr Streaming Rights (K-12 Single Site)



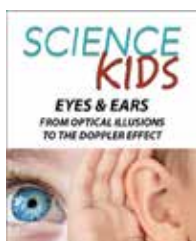
Magnetism and How Magnets Work
 Grades 4-8 2021 26:23 min
 Wonderscape Entertainment
 Learn all about magnetism and how magnets work. What is a magnet? How does a compass work? What is a magnetic field, and why is it important to earth? How do magnets help us store digital data?

#WE0107 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)



Electricity: From Light Bulbs to E-transportation
 Grades 6-8 2021 26:21 min
 Wonderscape Entertainment
 What is electricity and how does it light up our world? Electricity is a form of energy -the power to do work. This video teaches us about atoms, electrons, and protons; static electricity; generating electricity; how a light bulb works; electric batteries; and e-transportation.

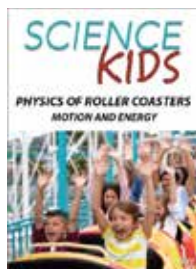
#WE0088 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)



Eyes & Ears: From Optical Illusions to the Doppler Effect
 Grades 4-9 2020 27:20 min
 Wonderscape Entertainment
 Learn all about the human eyes and ears. What are the parts of the eyes and ears and the functions of each part? What is the role of the brain in processing sights and sounds?

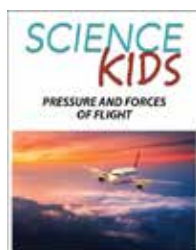
What is an optical illusion? What is the Doppler Effect?

#WE0089 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)



Physics of Roller Coasters: Motion and Energy
 Grades 9-12 2020 24:54 min
 Wonderscape Entertainment
 Learn the basic physics concepts that keep you in your roller-coaster cart and your cart on the track through the death-defying plunges and hairpin turns. What is the difference between speed and velocity? What is the formula for Gravitational Potential Energy? What is the Law of Conservation of Energy? What is friction? What is acceleration? How do you engineer a roller coaster? The answers to all of these questions and more are covered in depth with detailed graphics, diagrams and exciting video.

#WE0095 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)



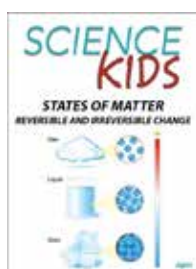
Pressure and Forces of Flight
 Grades 6-8 2018 22:55 min
 Wonderscape Entertainment
 Learn all about pressure and forces of flight. What is pressure? What is a force? What are weight, lift, thrust and drag and why are they vital to flight? The answers to these questions and many more are covered with detailed graphics and diagrams.

#WE0096 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)



Sound
 Grades 4-12 2016 24:04 min
 Wonderscape Entertainment
 Learn all about sound. What is sound? How does sound move? What are the characteristics of sound waves? How do we perceive sound? What is echolocation? The answers to all of this are covered in depth with detailed graphics, diagrams and exciting video. On-screen, multiple-choice reviews at the end of each segment reinforce important concepts and make learning fun.

#WE0098 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)



States of Matter: Reversible and Irreversible Change
 Grades 5-9 2021 20:06 min
 Wonderscape Entertainment
 Learn all about the states of matter - solid, liquid and gas. What are reversible and irreversible change? What are physical and chemical changes? These questions and more are covered in depth with detailed graphics, engaging examples and exciting video. On-screen, multiple-choice reviews at the end of each segment reinforce important points and make learning fun.

#WE0099 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)



Grades 4-9 2017 13 episodes x 22 min each Animiki See Distribution Inc.

Coyote Science takes viewers on a culturally rich adventure into the fun and wonder of Indigenous science. Youth and educators will love this colourful, exciting show that brings our beautiful and complex universe alive. Showcasing dozens of Indigenous scientists, **Coyote Science** shows youth the immense possibilities open to them—they too can become ethnobotanists, mathematicians, geologists and engineers. Even astronauts, like our regular special guest Commander Herrington! **Coyote Science** affirms that western and Indigenous science blend well together, and can be part of a rich, inclusive education.

Series Order #AS0000 \$1677 (13 episodes): DVD or 3 year Streaming Rights (K-12 Single Site)

Individual episodes: \$129

Season 1 episodes include:

Light

Join our Science Questers as they find out about how light has different temperatures.

#AS0001 \$129: DVD or 3 year Streaming Rights (K-12 Single Site)

Big Bang

Visit with Elder Woody Morrison who shares about how it all began – from an Indigenous perspective and we learn some of the science of the big bang.

#AS0002 \$129: DVD or 3 year Streaming Rights (K-12 Single Site)

Cosmos

Our Science Questers go in search of star knowledge and build a medicine wheel.

#AS0003 \$129: DVD or 3 year Streaming Rights (K-12 Single Site)

Science of Music

Rock out with us as we make some noise and learn about the scientific wonders of music with musicians Gregory Coyes and Sheryl Sewepagaham.

#AS0004 \$129: DVD or 3 year Streaming Rights (K-12 Single Site)

Animal Habitat

We can all help save animal homes — learn from Dr. Ruby Dunstan who helped protect the Stein Valley and wildlife habitat.

#AS0005 \$129: DVD or 3 year Streaming Rights (K-12 Single Site)

Dwellings

Our Science Questers learn about Indigenous architect Douglas Cardinal, and An'ostin makes a lean-to in the woods.

#AS0006 \$129: DVD or 3 year Streaming Rights (K-12 Single Site)

Canoes/Technology

Join our Science Questers as they learn about birch bark canoes and pilot Don Todd, who has flown on every continent except Antarctica.

#AS0007 \$129: DVD or 3 year Streaming Rights (K-12 Single Site)

Biology

Join our Science Questers as they find out why salmon are important to so many Indigenous Nations — visit a salmon hatchery!

#AS0008 \$129: DVD or 3 year Streaming Rights (K-12 Single Site)

Earth Science

Ethnobotanist Cease Wyss shares plant knowledge.

#AS0009 \$129: DVD or 3 year Streaming Rights (K-12 Single Site)

Geology

We meet archaeologist Dr. Rudy Reimer to study the ground beneath our feet.

#AS0010 \$129: DVD or 3 year Streaming Rights (K-12 Single Site)

Math

Professor Shawn Desaulniers says numbers are everywhere; can you solve a Rubik's cube?

#AS0011 \$129: DVD or 3 year Streaming Rights (K-12 Single Site)

Science of Art

Celebrated artists Sonny Assu and Dionne Paul make art and show us how fascinating the world of colours and design can be.

#AS0012 \$129: DVD or 3 year Streaming Rights (K-12 Single Site)

Chemistry

Isa celebrates the awesome accomplishments of Senator Lillian Dyck, a neuroscientist, and we learn how to make glue out of milk!

#AS0013 \$129: DVD or 3 year Streaming Rights (K-12 Single Site)

Featuring:

- **Dr. Robert Cardinal, Blackfoot - Astronomer**
- **Dr. Ruby Dunstan, Lytton First Nation - Chief**
- **Douglas Cardinal, Blackfoot - Architect**
- **Sherryl Sewepagaham, Cree Dene - Musician/ Educator**
- **Gregory Coyes, Metis - Musician and Producer**
- **Dr. Rudy Reimer, Squamish Nation - Archeologist and many more!**



Grades 4-9 2020 13 episodes x 22 min each Animiki See Distribution Inc.

Our young scientists are encouraged to ask questions, to make their own observations, to unravel How? and Why? Their natural curiosity is sparked as they learn from a dazzling variety of sources — Indigenous scientists and knowledge holders, animated stories, experiments, music, and Indigenous Science Questers investigating their world. Indigenous knowledge sure is dynamic!

Series Order #AS0014 \$1677 (13 episodes): DVD or 3 year Streaming Rights (K-12 Single Site)

Individual episodes: \$129: DVD or 3 year Streaming Rights (K-12 Single Site)

Season 2 episodes include:

Rivers

Science Questers explore the importance of rivers, their ecosystems and how to protect them.

#AS0015 \$129: DVD or 3 year Streaming Rights (K-12 Single Site)

Life By The Ocean

Isa invites us learn more from the ocean and how Indigenous people have made their villages and towns by oceans.

#AS0016 \$129: DVD or 3 year Streaming Rights (K-12 Single Site)

Our Great Blue World

We honour water as Science Questers take part in a water ceremony and find out how vital the ocean is to living on earth and how we must respect water.

#AS0017 \$129: DVD or 3 year Streaming Rights (K-12 Single Site)

Solar Power

Science Questers investigate how solar power can serve as a clean alternative energy source.

#AS0018 \$129: DVD or 3 year Streaming Rights (K-12 Single Site)

Skateboarding

Science Questers hop on their skateboards and talk to a physicist about how force, energy and gravity are in motion while skateboarding.

#AS0019 \$129: DVD or 3 year Streaming Rights (K-12 Single Site)

Underground

“Find out what goes on underground when Science Questers explore the world of pit-houses and geothermal power.

#AS0020 \$129: DVD or 3 year Streaming Rights (K-12 Single Site)

Astronomy

Join us as we look to the sky. Our Science Questers find out about going to space and how being part of a team was one of Commander Herrington’s favourite part of being an astronaut.

#AS0021 \$129: DVD or 3 year Streaming Rights (K-12 Single Site)

Volcanoes

Isa tells us about the “Ring of Fire” and the role of tectonic plates for in the creation of volcanoes.

#AS0022 \$129: DVD or 3 year Streaming Rights (K-12 Single Site)

Buffalo

Science Questers go on a journey in Blackfoot Territory to learn about the restoration of the Buffalo and eco-balance.

#AS0023 \$129: DVD or 3 year Streaming Rights (K-12 Single Site)

City Food

Science Questers investigate how to sustain that connection of culture and food in a busy urban environment.

#AS0024 \$129: DVD or 3 year Streaming Rights (K-12 Single Site)

Animals

Science Questers explore why animal habitats are important and how we can learn from our animal relatives.

#AS0025 \$129: DVD or 3 year Streaming Rights (K-12 Single Site)

Video Games

Join our Science Questers as they try out computer coding and meet Indigenous game designers.

#AS0026 \$129: DVD or 3 year Streaming Rights (K-12 Single Site)

Virtual Reality

Science Questers investigate what virtual reality means to our lives and what you need to know to make VR.

#AS0027 \$129: DVD or 3 year Streaming Rights (K-12 Single Site)

Featuring:

- Rosemary Georgeson, Coast Salish/Sahtu Dene - Filmmaker
- T’uy’t’anat, Skwxwu7mesh, Sto:Lo, Metis - Ethnobotanist
- Karen Rose Thomas, Tsleil-Waututh Nation - Archeologist
- Naxaxalhts’i, Shxw’ow’hamel First Nation - Historian
- Leroy Little Bear, Kainai Nation - Professor
- Percy Paul, Physicist & Mathematician
- Monica Peters, Mohawk - VR Developer & Producer and many more!



Grades JK-3 2020/2021 50 episodes x 15 min each Blue Ant Media
 Season 1: Order #BAM1063/ Season 2: Order #BAM1223/ Season 3: Order #BAM1239

SEASON 1 & 2: \$885 per season (15 X 15 min ep)/ SEASON 3: \$1180 (20 x 15 min ep): DVD or 3 year Streaming Rights (Single K-12 Site)
 Individual episodes: \$59 each: DVD or 3 year Streaming Rights (Single K-12 Site)

There is magic and adventure everywhere if you only look closely enough....LET'S GO FOR A WALK is a way for every child to enjoy being outdoors and appreciate the nature on their doorstep. The world outside is full of beauty, in the shapes of the chimney pots; the smells of the market; the rattle of a train; the crashing of the garbage truck. The walks are child-led, and the children are encouraged to see the potential for adventure and exploration by Ranger Hamza.

SEASON ONE:

Puddle Splashing and Snakes Walk (#BAM1064)

Ranger Hamza and the Ramblers have lots of fun while walking to an old mill.

Horses and Flowers Walk (#BAM1065)

Ranger Hamza and the Ramblers walk through town to water the flowers.

Canal Boats and Bubbles Walk (#BAM1066)

Ranger Hamza and the Ramblers walk along a canal to a place where they can blow bubbles.

Raindrops and Hidden Meadow Walk (#BAM1067)

Ranger Hamza and the Ramblers go on a walk through a rainy forest to a hidden meadow.

Rocky Beach and Pirates Walk (#BAM1068)

Ranger Hamza and the Ramblers pass through a rocky beach on a walk to an old castle.

Birds and Thunder Walk (#BAM1069)

Ranger Hamza and the Ramblers walk to the park to feed the birds at the pond.

Crocodile and Rounders Walk (#BAM1070)

Ranger Hamza and the Ramblers walk to the meadow to play a game of rounders.

Bugs and Bark Walk (#BAM1071)

Ranger Hamza and the Ramblers walk through the forest to make bark rubbings.

Bees and Compost Walk (#BAM1072)

Ranger Hamza and the Ramblers walk to a meadow to put vegetable cuttings in the composter.

Planes and Dragonfly Walk (#BAM1073)

Ranger Hamza and the Ramblers walk to a great place to fly their paper planes.

Sheep and Shiny Fish Walk (#BAM1074)

Ranger Hamza and the Ramblers have fun pretending to be trolls on a walk to a city farm.

Bear House and Football Walk (#BAM1075)

Ranger Hamza and the Ramblers have fun on the way to a place where they can play football.

Silly Faces and Picnic Walk (#BAM1191)

Ranger Hamza and the Ramblers explore a market and make silly faces on a walk to a picnic.

Autumn Leaves and Den Walk (#BAM1192)

Ranger Hamza and the Ramblers search the woods for a place to build a den.

Wind Sounds and Sandcastles Walk (#BAM1193)

Ranger Hamza and the Ramblers make wind sounds and find a mermaid's purse...all on a walk to make sandcastles!

SEASON TWO:

Dinosaur and Burnt Forest Walk (#BAM1224)

Ranger Hamza and the Ramblers walk to a great place to draw some pictures using charcoal.

Docks and Sailing Ship Walk (#BAM1225)

Ranger Hamza and the Ramblers walk through the docks to get on board an old sailing ship.

Peekaboo Wall and Treasure Island Walk (#BAM1226)

Ranger Hamza and the Ramblers walk to treasure island to play at being pirates.

Cows and Apples Walk (#BAM1227)

Ranger Hamza and the Ramblers go on a morning walk to the orchard to pick apples.

Trains and Barber's Pole Walk (#BAM1228)

Ranger Hamza and the Ramblers pretend to be trains on a walk to the library.

Fire Engines and Pinwheels Walk (#BAM1229)

Ranger Hamza and the Ramblers go on a walk to play with pinwheels in the wind.

Musical Fence and Postbox Walk (#BAM1230)

Ranger Hamza and the Ramblers walk to a postbox to send a letter.

Witch Hole and Lanterns Walk (#BAM1231)

Ranger Hamza and the Ramblers go on an autumn walk to drink hot chocolate in the dark.

Big Fish and Clouds Walk (#BAM1232)

Ranger Hamza and the Ramblers go on an early morning walk to spot some cloud shapes.

Old Train and Dragon Walk (#BAM1233)

Ranger Hamza and the Ramblers go on a walk to make a nature collage!

Chinese Lions and Robots Walk (#BAM1234)

Ranger Hamza and the Ramblers go on a walk to play Billy Goat's Gruff!

Big Rock and Spider Tree Walk (#BAM1235)

Ranger Hamza and the Ramblers have fun on a walk to play on the beach!

Ponies and Pumpkins Walk (#BAM1236)

Ranger Hamza and the Ramblers have fun on a walk to a pumpkin patch!

Sea Monster Tree and Circus Walk (#BAM1237)

Ranger Hamza and the Ramblers go on a walk to make leaf decorations.

Lighthouse and Seashells Walk (#BAM1238)

Ranger Hamza and the Ramblers walk along the beach to go paddling in the sea.

SEASON THREE:

Tide Bell and Giant Egg Walk (#BAM1240)

Ranger Hamza and the Ramblers meet a dragon and discover a giant egg.

Giant Tree and Steep Hill Walk (#BAM1241)

Ranger Hamza and the Ramblers find a giant tree and play chase in a maze.

Mermaids and Octopus Tree Walk (#BAM1242)

Ranger Hamza and the Ramblers hop like mermaids and spot a big red bridge.

Grass Piano and Acorns Walk (#BAM1243)

Ranger Hamza and the Ramblers play a grass piano and meet a badger.

Stepping Stones and Crystal River Walk (#BAM1244)

Ranger Hamza and the Ramblers pretend to be mermaids and find a crystal river.

Spiky Tree and Torches Walk (#BAM1245)

Ranger Hamza and the Ramblers spot a spiky tree and make sea sounds.

Sleepy Dragon and Anchor Walk (#BAM1246)

Ranger Hamza and the Ramblers meet a sleepy dragon and fly on a spaceship anchor.

Swirly Rock and Diggers Walk (#BAM1247)

Ranger Hamza and the Ramblers pretend to be diggers and discover a pointy tower.

Magical Door and Stompy Bridge Walk (#BAM1248)

Ranger Hamza and the Ramblers cross a stompy bridge and dance like elves!

Golden Chicken and Lamp Post Walk (#BAM1249)

Ranger Hamza and the Ramblers spot a golden chicken and cheer up a lamp post.

Giant's Campfire and Swamp Monsters Walk (#BAM1250)

Ranger Hamza and the Ramblers stomp in mud and spot a giant's campfire.

Cormorants and Compass Walk (#BAM1251)

Ranger Hamza and the Ramblers spot cormorants and play a game with colours.

Wishing Well and Owls Walk (#BAM1252)

Ranger Hamza & the Ramblers find a wishing well & fly like owls.

Lookout Tower and Beeping Bus (#BAM1253)

Hamza & the Ramblers listen to the wind & beep like buses.

Waterfalls and Spooky Tag Walk (#BAM1254)

Ranger Hamza and the Ramblers squelch in the mud and find a waterfall.

Spaceship and Musical Instruments Walk (#BAM1255)

Ranger Hamza and the Ramblers blast off into space and gallop like knights.

Square Spiders and Raindrops Walk (#BAM1256)

Ranger Hamza and the Ramblers listen to raindrops and meet a square spider.

Ten-Mile Snake and Willow Tree Walk (#BAM1257)

Ranger Hamza and the Ramblers stomp like giants and find a ten-mile-long snake.

Woolly Bench and Giant Spiderweb Walk (#BAM1258)

Ranger Hamza and the Ramblers find a woolly bench and wash a giant greenhouse.

Whale Boat and Rockpool Walk (#BAM1259)

Ranger Hamza & the Ramblers explore a rockpool & spot a heron.

Available in
ENGLISH & FRENCH



Grades 1-8 2019 45 episodes x 3:30 each GAPC

As enlightening as it is entertaining, this series will introduce a multitude of STEM topics and concepts, both familiar and new while providing accessible experiments to demonstrate these ideas in an exciting DIY context. Based on the award-winning *MathXplosion* brand, *ScienceXplosion* encourages young learners to experience the scientific marvels of their world within a safe and accessible framework, and to try their hand at some super fun experiments at the same time!

Individual Series: 7-8 titles in each - \$99: DVD 3 year streaming rights (Single K-12 site): \$99
SPECIAL SERIES PRICE (45 episodes) - ONLY \$665: DVD (6 disks) or 3 year streaming rights (Single K-12 site)
Series Ordering Number: ENGLISH - #GAP773 FRENCH - #GAPF16

ScienceXplosion - Series 1

1. Super Shape! (structures)
2. Superchutes! (structures)
3. Kite Shenanigans (structures)
4. Friction and Reality (friction/movement)
5. Bernoulli and Company (flight)
6. Painting at the Bernoulli (flight)
7. Wind Beneath Your Wings (flight/symmetry)

EN: #GAP774 \$99: DVD or 3 yr streaming rights (Single K-12 site)

FR: #GAPF17 \$99: DVD or 3 yr streaming rights (Single K-12 site)

ScienceXplosion - Series 2

1. 3, 2, 1 ... Lift Off! (chemical reactions)
2. ColourXplosion! (mixing colours)
3. Admirable Admiral (fluid displacement and density)
4. Secret Message! (molecules/chromatography)
5. Rise Up! (chemical reactions)
6. Density Intensity (concept of density/liquids)
7. Prove It! (scientific method)

EN: #GAP775 \$99: DVD or 3 yr streaming rights (Single K-12 site)

FR: #GAPF18 \$99: DVD or 3 yr streaming rights (Single K-12 site)

ScienceXplosion - Series 3

1. Solid as a Liquid (states of matter)
2. Sensational Solubles! (solubles/matter)
3. Crunchy Crystals (solutions/crystallization)
4. A Reflection on Refraction (light)
5. Sound-sational! (sound/vibration)
6. Spy Vision! (light)
7. Soapy Sailing (surface tension of water)
8. Mission: Mix Impossible! (properties of liquids)

EN: #GAP776 \$99: DVD or 3 yr streaming rights (Single K-12 site)

ScienceXplosion - Series 4

1. Well Buttered (changes in matter)
2. The Era of the Air Pump (energy transfer/forces & motion)
3. Electromagnetic Attraction (electricity & magnetism)
4. The Colour of Heat (light energy)
5. May the Force Be with You (static electricity)
6. Secret Code (coding)
7. Find the Culprit! (unique fingerprints/pattern recognition)

EN: #GAP777 \$99: DVD or 3 yr streaming rights (Single K-12 site)

FR: #GAPF20 \$99: DVD or 3 yr streaming rights (Single K-12 site)

ScienceXplosion - Series 5

1. Optical Illusion, my eye!
2. The Buzz on Bugs (insects)
3. Spinning Seeds (plants)
4. Eric's Bear Paws (animal adaptation)
5. Sensational Senses! (5 senses)
6. Neurons, Neurons, Neurons! (transmitting information)
7. What's Up with Water? (capillary action in plants/gravity)
8. Macro-Germs (germs/hand washing)

EN: #GAP778 \$99: DVD or 3 yr streaming rights (Single K-12 site)

FR: #GAPF21 \$99: DVD or 3 yr streaming rights (Single K-12 site)

ScienceXplosion - Series 6

1. Circle of Life (biodiversity)
2. A Tornado in a Bottle (formation of a tornado/forces)
3. Eric Makes Wind (anemometer/wind speed)
4. Eric, The Map and the Compass (magnetic fields)
5. Stars in a Jar (constellations)
6. Crazy Craters (meteors/craters)
7. Eric Makes Paper! (recycling/changes in matter)
8. Fossil Finds (fossils)

EN: #GAP779 \$99: DVD or 3 yr streaming rights (Single K-12 site)



La Maison de la Science Playlist

Grades 3-8 2018 56 min (22 episodes) HG Distribution

Pourquoi le ciel est bleu? Que signifie ADN? Comment les avions peuvent-ils voler? Pourquoi les bateaux flottent? Cette série est dédiée aux enfants (mais pas uniquement) et répond à 22 questions scientifiques.

Le choix narratif est basé sur le style de vie de la protagoniste, Margot, une vieille dame solitaire aux passions non conventionnelles, peu disposée à montrer de l'affection, mais... attention, l'apparence est souvent trompeuse!

En plus de révéler les raisons scientifiques de certains phénomènes naturels, les 22 épisodes sont liés par une intrigue qui nous montrera chronologiquement une « différente » Margot.

- Épisode 1: Pourquoi le ciel est bleu?
- Épisode 2: Qui peut marcher sur l'eau?
- Épisode 3: Pourquoi la mer est salée?
- Épisode 4: Comment fait-on pour respirer?
- Épisode 5: Liquide ou solide?
- Épisode 6: Qui est né en premier: l'œuf ou la poule?
- Épisode 7: Qu'est-ce qu'un son?
- Épisode 8: Comment vole une montgolfière?
- Épisode 9: Pourquoi la glace est froide
- Épisode 10: Est-ce que le feu respire?
- Épisode 11: Qu'est-ce que la foudre?
- Épisode 12: Pourquoi je vois des visages partout?
- Épisode 13: Qu'est-ce que sont les moisissures?
- Épisode 14: Acide ou basique? Je vais te le dire!
- Épisode 15: Je peux être invisible?
- Épisode 16: Chimie ou magie?
- Épisode 17: Comment se forment les nuages?
- Épisode 18: Pourquoi la levure gonfle?
- Épisode 19: Pourquoi les bateaux flottent?
- Épisode 20: ADN: que signifient ces 3 lettres?
- Épisode 21: Comment les avions volent-ils?
- Épisode 22: Pourquoi la boussole indique toujours le nord?

#HG0079FRPL \$235: 3 year streaming rights (PLAYLIST)



52 x 22'

ANNEDROIDS

KIDS 6-9 LIVE ACTION/CGI SERIES



Science, adventure and androids!

All in a day's work for kid-scientist Anne.

Grades K-8 22 min each Sinking Ship Entertainment

A live-action/CGI blended series, *Annedroids* is the story of budding scientist Anne who builds robots to help her perform experiments with her friends Nick and Shania, and her android creations. It's a series that celebrates science, technology, engineering and math and does it all through the lens of an 11 year-old girl. There's nothing Anne likes more than getting her hands dirty to make things, breaking things apart to see how they work, and mixing things together to see that happens. Anne likes to push the boundaries of what's scientifically possible and has built three androids on her own: PAL, who is fascinated by everything and loves asking questions; EYES, whose ability to see things from all angles can get him into trouble; and HAND, who's strong and dependable but a little bit clumsy. Anne's experiments always lead to unforeseen complications, hijinks and misadventures. And that's where Anne's assistants Nick and Shania come in – Nick and Shania have an uncanny way of figuring out the real life solutions to Anne's scientific problems. Needless to say, when Anne, Nick, Shania and the androids work together, the results are far from predictable.

SEASON ONE:

- SSE139 Episode 1 - New Pals (Power Sources)
- SSE140 Episode 2 - Pal and Go Seek (Animal Escape Technics)
- SSE141 Episode 3 - Reduce, Reuse, Robocycle (Contraption Design)
- SSE142 Episode 4 - Helping Hand (Chemical Reactions)
- SSE143 Episode 5 - Garbage Band (Security System)
- SSE144 Episode 6 - Eyes Up (Helium Properties)
- SSE145 Episode 7 - Junkyard Sleepover (Astronomy)
- SSE146 Episode 8 - Pal in the Middle (Optics)
- SSE147 Episode 9 - Android's Best Friend (Plants)
- SSE148 Episode 10 - The Power of Love (Electricity Production)
- SSE149 Episode 11 - Magnetic Pal (Magnets)
- SSE150 Episode 12 - Out of Hand (Radio Waves)
- SSE151 Episode 13 - Eyes on the Skies (Mineralogy)

SEASON TWO:

- SSE178 Episode 1 - Message in a Rocket (Flight)
- SSE179 Episode 2 - Undercover Pigeon (Chemistry)
- SSE180 Episode 3 - Experiments in Babysitting (Animal Care)
- SSE181 Episode 4 - Parent Swap (Air Gliding)
- SSE182 Episode 5 - An Android Space Odyssey (Atmosphere)
- SSE183 Episode 6 - Zackbot (Supplying System)
- SSE184 Episode 7 - Junkyard CSI (Genetics)
- SSE185 Episode 8 - Jurassic Junkyard (Dinosaurs)
- SSE186 Episode 9 - Costume Pal (Dry Ice)
- SSE187 Episode 10 - Broken Hand (Simple Mechanisms)
- SSE188 Episode 11 - Lights! Camera! Volcano!
(Chemical Reactions)
- SSE189 Episode 12 - Annebots (Advanced Robotics)
- SSE190 Episode 13 - Family Matter (Matter States)

SEASON THREE:

- SSE192 Episode 1 - Reset (Friendship)
- SSE193 Episode 2 - I, Android (Following Actions)
- SSE194 Episode 3 - Paling Around (Strength)
- SSE195 Episode 4 - The Escape Artist (Advanced Technology)
- SSE196 Episode 5 - For Art's Sake (Camouflaging)
- SSE197 Episode 6 - Teacher's Pal (Fuel Sources)
- SSE198 Episode 7 - Haunted Junkyard (Fight-or-Flight)
- SSE199 Episode 8 - Robo Mutt (Animal Protection Techniques)
- SSE200 Episode 9 - Broken Parts (Car Parts)
- SSE201 Episode 10 - Bugged Out
(Entomology and micro-technology)
- SSE202 Episode 11 - The Mother of Invention
(Navigation methods, constellations, and satellites)
- SSE203 Episode 12 - Bionic Grandma (Advanced Robotics)
- SSE204 Episode 13 - Friendiversary (Hearts)

SEASON FOUR:

- SSE206 Episode 1 - Operation Pal (Hypothesis)
- SSE207 Episode 2 - Dumpster Diving (Reservoirs)
- SSE208 Episode 3 - Enemy Lines (Dealing with Bullies)
- SSE209 Episode 4 - Flying the Cooper (Tracking)
- SSE210 Episode 5 - Palception (Dreams)
- SSE211 Episode 6 - Wilderness Tech Part 1 (Fishing & Canoeing)
- SSE212 Episode 7 - Wilderness Tech Part 2
(Compasses and Trails)
- SSE213 Episode 8 - Search Party (Theories)
- SSE214 Episode 9 - Thermodad (Energy Sources)
- SSE215 Episode 10 - Forces of Nurture (Physics and Forces)
- SSE216 Episode 11 - Growth Spurt (Making Ingredients)
- SSE217 Episode 12 - System Failure Part 1 (Holograms)
- SSE218 Episode 13 - System Failure Part 2
(Importance of Science)

Season 1: Order #SSE138/ Season 2: Order #SSE177/ Season 3: Order #SSE191/ Season 4: Order #SSE205

\$1027 per season (13 x 22 min episodes): DVD or 3 year Streaming Rights (Single K-12 Site)

Individual episodes: \$79 each: DVD or 3 year Streaming Rights (Single K-12 Site)

Visit www.mcintyre.ca for episode descriptions and previews.

If you subscribe to ON-CORE or CAN-CORE, you have access to all of these episodes plus curriculum correlations.





One Stop Science Shop Series

Grades 3-8 2015 25 episodes x 12 min each HG Distribution

The place to go to answer all your science-related questions — it's the One Stop Science Shop. Do-it-yourself experiments, a hologram entry phone, and fun stories about great scientists help visiting kids to understand some of the trickiest principles of science.

Series Order #HG0051 \$2,574: 3yr K-12 Stream Price or DVD
Individual titles: \$99: DVD or 3 yr Streaming Rights (K-12 Single Site)

Episodes include the following:

#HG0052	The Wonders of DNA	Why do you look so much like your siblings?
#HG0053	Really Remarkable Robotics	What role do robots play in the future of mankind?
#HG0054	How Do Plants Eat and Drink?	How can we prove plants and flowers drink water?
#HG0055	Bouncing and Bending Light	What is the difference between reflection and refraction?
#HG0056	Communicating without Wires	How come we can't hear people talking next to us when we're in the sea?
#HG0057	Mapping and Levels	How come we see the Earth as flat when we know it's round?
#HG0058	Marvelous Medicine and First Aid	What's the best way to organize a first aid kit?
#HG0059	Multiple Applications of Magnets	How did people know where they were heading before GPS?
#HG0060	Microscopic Revelations	How long is our DNA?
#HG0061	Fun with Pressure and Hydraulics	How come does a lift operate as a hydraulic system?
#HG0062	Following the Fibre Optic Trail	How do data and information travel from one computer to another?
#HG0063	Tension and Chemical Kinetics	What exactly is surface tension?
#HG0064	Looking for Miniscule Microbes	How can microbes be of use at a birthday party?
#HG0065	Environmental Science	How do whales and sea animals stay warm in extreme cold?
#HG0066	Fascinating Fossils	Were all dinosaurs reptiles?
#HG0067	Lighting the Solar System	What's the best way to remember the colours of the rainbow?
#HG0068	The Periodic Table	How does the Periodic Table work?
#HG0069	Micro Mycology	How to make ice cream without a freezer?
#HG0070	Electric Current and Power	How do batteries work?
#HG0071	Green Science and Recycling	What's the difference between science and green science?
#HG0072	Programming and Coding	How did people compute before the invention of computers?
#HG0073	Crazy Catalysts	What is a catalyst?
#HG0074	Engaging Engineering	How do simple building elements create architecture?
#HG0075	Astounding Astronomy	How do rockets manage to defy gravity?
#HG0076	Spectroscopes and Light	What do atmospheric particles do in the sky?
#HG0077	Heat and Energy	What's the difference between convection and conduction?



LOOK KOOL SERIES

Grades 3-8 Season 1: 2015 Season 2: 2016 22 min each Apartment 11

LOOK KOOL is a zany show about geometry, jam-packed with skits, songs, cartoons, and 3D special effects. Our host, Hamza, and his mischievous robot cat show viewers how math is in everything around us, from broccoli, to music, to beaver dams. In every episode real kids help Hamza solve a mathematical mystery: How come triangle shapes are so strong? What does music have in common with pizza? How do you fit really big objects in really small spaces? Kids build stuff, and break stuff, and even get soaked by water balloons to help Hamza find the answers.

SEASON 1:

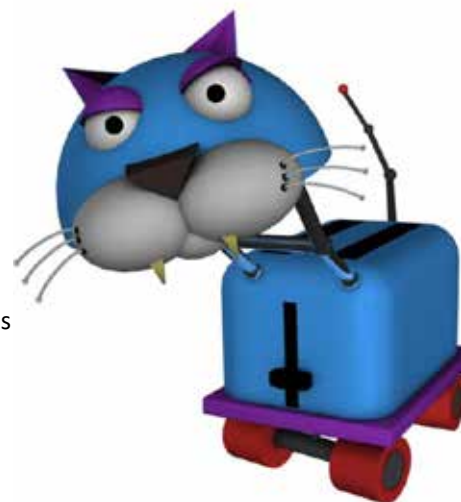
APT092	Spheres
APT093	Maps
APT094	Arches
APT095	Musical Cylinders
APT096	Pyramids
APT097	Cones
APT098	Tiling
APT099	Aerodynamics
APT100	Spirals
APT101	Lenses
APT102	Domes
APT103	Cubes
APT104	Wedges
APT105	Projectiles
APT106	Symmetry
APT107	Trusses

SEASON 2:

APT078	1, 2, 3 Dimensions
APT079	Origami
APT080	Frame, Shell, Solid
APT081	Probability
APT082	Programming
APT083	What's Your Angle?
APT084	Power of 10
APT085	Make That a Double
APT086	Measurement
APT087	Zero
APT088	Nature's Most Mysterious Patterns
APT089	Math in Music
APT090	Weird Shapes

Series Order #APT077: \$1287 (13 programs):
DVD or 3 yr Streaming Rights (K-12 Single Site)
Individual titles: \$99 each

Series Order #APT091: \$1584 (16 programs):
DVD or 3 yr Streaming Rights (K-12 Single Site)
Individual titles: \$99 each



C'EST WOW SERIES

Grades 1-4 2015 24 min each Apartment 11

C'EST WOW fait découvrir la géométrie aux jeunes à l'aide de graphiques, d'animations, de vidéos clips et d'entrevues avec des personnages historiques hilarants. Des jeunes deviennent enquêteurs et partent à la recherche de formes, d'autres s'amuse à résoudre des casse têtes rigolos ou relèvent des défis beaucoup plus physiques! Finalement, des passionnés de géométrie proposent des expériences mémorables. C'est WOW, c'est vraiment WOW!

APT092F	Sphères
APT093F	Cartographie
APT094F	Les arches et les arcs
APT095F	Les cylindres musicaux
APT096F	Les pyramides
APT097F	Les cônes
APT098F	Le dallage
APT099F	L'aérodynamique
APT100F	Les spirales
APT101F	Les lentilles
APT102F	Les dômes
APT103F	Les cubes
APT104F	Les coins
APT105F	Les projectiles de sports
APT106F	La symétrie
APT107F	Les treillis

Series Order #APT091F: \$1584 (16 programs): DVD or 3 yr Streaming (K-12 Single Site)
Individual titles: \$99 each



WINNER

OUTSTANDING CHILDREN'S OR FAMILY VIEWING PROGRAM

Odd Squad



Meet the Odd Squad! A Secret Government Agency Run by Kids who Investigate Weird and Unusual Phenomena and Put Things Right Again!

Grades K-8 11 min each Sinking Ship Entertainment

Join agents from odd squad in this extremely entertaining, humorous and intelligent show that makes learning mathematics simple and fun. The Odd Squad series addresses mathematics curriculum expectations mostly from Kindergarten to Grade 3 in Number Sense and Numeration, Measurement and Date Management. In a few episodes, curriculum expectations from Patterning and Algebra, Geometry and Spatial Sense and Probability will be included.

ODD SQUAD is a live-action comedy about kid agents who are equipped with the world's most advanced and unpredictable gadgetry. Whenever something strange or unusual happens, it's Odd Squad's job to put things right by using Math to solve odd problems. If something odd happens like your dog is doubled or your spouse is shrunk, not to worry. Simply call your friendly local Odd Squad precinct and those kids will fix you right up.

Season One: Order #SSE000 \$4720 (80 x 11 min episodes): DVD or 3 year Streaming Rights (Single K-12 Site)

Season Two: Order #SSE044 \$4130 (70 x 11 min episodes): DVD or 3 year Streaming Rights (K-12 Single Site)

Individual episodes: \$59 each: DVD or 3 year Streaming Rights (Single K-12 Site)

SEASON ONE:

SSE004A Zero Effect (Ep 1A)
 SSE004B Bad Luck Bears (Ep 1B)
 SSE005A Soundcheck (Ep 2A)
 SSE005B Double Trouble (Ep 2B)
 SSE006A Crime at Shapely Manor Part 1 (Ep 3A)
 SSE006B Crime at Shapely Manor Part 2 (Ep 3B)
 SSE007A Reindeer Games Part 1 (Ep 4A)
 SSE007B Reindeer Games Part 2 (Ep 4B)
 SSE008A My Better Half (Ep 5A)
 SSE008B The Confalones (Ep 5B)
 SSE009A Blob on the Job (Ep 6A)
 SSE009B Party of 5, 4, 3, 2, 1 (Ep 6B)
 SSE010A Oscar and the Oscarbots (Ep 7A)
 SSE010B Picture Day (Ep 7B)
 SSE011A A Case of the Sing-Alongs (Ep 8A)
 SSE011B Ms. O Uh-Oh (Ep 8B)
 SSE012A Skip Day (Ep 9A)
 SSE012B The Great Grinaldi (Ep 9B)
 SSE013A The Trouble with Centigurps (Ep 10A)
 SSE013B Totally Odd Squad (Ep 10B)
 SSE014A How to Interrogate a Unicorn (Ep 11A)
 SSE014B The Briefcase (Ep 11B)
 SSE015A Best Seats in the House (Ep 12A)
 SSE015B Agent Obfusco (Ep 12B)
 SSE016A Life of O'Brian (Ep 13A)
 SSE016B Whatever Happened to Agent Oz? (Ep 13B)
 SSE017A The Jackie's (Ep 14A)
 SSE017B Invasion of the Body Switchers (Ep 14B)
 SSE018A The Odd Antidote (Ep 15A)
 SSE018B The One That Got Away (Ep 15B)
 SSE019A Odd Outbreak (Ep 16A)
 SSE019B The Perfect Lunch (Ep 16B)
 SSE020A Rise of the Hydraclops (Ep 17A)
 SSE020B O is Not for Old (Ep 17B)
 SSE021A Dance Like Nobody's Watching (Ep 18A)
 SSE021B Recipe for Disaster (Ep 18B)
 SSE022A Hold the Door (Ep 19A)
 SSE022B Flatastrophe (Ep 19B)
 SSE023A Puppet Show (Ep 20A)
 SSE023B Mystic Egg Pizza (Ep 20B)
 SSE024A 6:00 to 6:05 Part 1 (Ep 21A)
 SSE024B 6:00 to 6:05 Part 2 (Ep 21B)
 SSE025A The Potato Ultimato (Ep 22A)
 SSE025B A Fistful of Fruit Juice (Ep 22B)
 SSE026A Soundcheck Part Deux (Ep 23A)
 SSE026B Jinx (Ep 23B)
 SSE027A Training Day Part 1 (Ep 24A)
 SSE027B Training Day Part 2 (Ep 24B)
 SSE028A Trading Places (Ep 25A)
 SSE028B Bad Lemonade (Ep 25B)
 SSE029A Robert Plant (Ep 26A)
 SSE029B Game Time (Ep 26B)
 SSE030A The O Games Part 1 (Ep 27A)
 SSE030B The O Games Part 2 (Ep 27B)
 SSE031A Captain Fun (Ep 28A)
 SSE031B Switch Your Partner Round and Round (Ep 28B)
 SSE032A Trials and Tubulations Part 1 (Ep 29A)
 SSE032B Trials and Tubulations Part 2 (Ep 29B)
 SSE033A The Curious Case of Pirate-itis (Ep 30A)
 SSE033B Oscar the Couch (Ep 30B)
 SSE034A No Ifs, Ands, or Robots (Ep 31A)
 SSE034B Worst First Day Ever (Ep 31B)
 SSE035A Undercover Olive Part 1 (Ep 32A)
 SSE035B Undercover Olive Part 2 (Ep 32B)
 SSE036A Not So Splash (Ep 33A)

SSE036B By the Book (Ep 33B)
 SSE037A O vs. The Ballcano (Ep 34A)
 SSE037B Assistants' Creed (Ep 34B)
 SSE038A Now You Don't See Me (Ep 35A)
 SSE038B Moustache Confidential (Ep 35B)
 SSE039A Disorder in the Court Part 1 (Ep 36A)
 SSE039B Disorder in the Court Part 2 (Ep 36B)
 SSE040A Oscar of All Trades (Ep 37A)
 SSE040B Swamps 'N' Gators (Ep 37B)
 SSE041A There Might Be Dragons (Ep 38A)
 SSE041B Dawn of the Read (Ep 38B)
 SSE042A Olive and Otto in Shmumberland Part 1 (Ep 39A)
 SSE042B Olive and Otto in Shmumberland Part 2 (Ep 39B)
 SSE043A O is Not for Over Part 1 (Ep 40A)
 SSE043B O is Not for Over Part 2 (Ep 40B)

SEASON TWO:

SSE045A First Day Part 1 (Ep 1A)
 SSE045B First Day Part 2 (Ep 1B)
 SSE046A Back to the Past (Ep 2A)
 SSE046B Odd Squad Needs You (Ep 2B)
 SSE047A Mid-Day in the Garden of Good and Odd (Ep 3A)
 SSE047B Failure to Lunch (Ep 3B)
 SSE048A The O Team (Ep 4A)
 SSE048B Show Me the Money (Ep 4B)
 SSE049A Oscar Strikes Back Part 1 (Ep 5A)
 SSE049B Oscar Strikes Back Part 2 (Ep 5B)
 SSE050A Olympia's Day (Ep 6A)
 SSE050B Otis's Day (Ep 6B)
 SSE051A And Then They Were Puppies (Ep 7A)
 SSE051B A Case of the Sillies (Ep 7B)
 SSE052A Flawed Squad (Ep 8A)
 SSE052B The Creature Whisperer (Ep 8B)
 SSE053A Happy Halfiversary (Ep 9A)
 SSE053B Good Egg Bad Egg (Ep 9B)
 SSE054A Night Shift (Ep 10A)
 SSE054B Put Me in Coach (Ep 10B)
 SSE055A Extreme Cakeover (Ep 11A)
 SSE055B A Job Well Undone (Ep 11B)
 SSE056A Three's Company (Ep 12A)
 SSE056B Behind Enemy Mimes (Ep 12B)
 SSE057A Drop Gadget, Repeat (Ep 13A)
 SSE057B 20 Questions (Ep 13B)
 SSE058A High Maintenance (Ep 14A)
 SSE058B Not OK Computer (Ep 14B)
 SSE059A O is for Opposite (Ep 15A)
 SSE059B Agent Oksana's Kitchen Nightmares (Ep 15B)
 SSE060A Rookie Night (Ep 16A)
 SSE060B Who Let the Doug Out? (Ep 16B)
 SSE061A The Cherry-On-Top-Inator (Ep 17A)
 SSE061B Sir (Ep 17B)
 SSE062A Orchid's Almost Half Hour Talent Show (Ep 18A)
 SSE062B The Perfect Score (Ep 18B)
 SSE063A The Voice (Ep 19A)
 SSE063B Problem Partners (Ep 19B)
 SSE064A Oona and the Oonabots (Ep 20A)
 SSE064B The Ninja Situation (Ep 20B)
 SSE065A Breakfast Club (Ep 21A)

SSE065B Dr. O: Party Time, Excellent (Ep 21B)
 SSE066A Xs and Os (Ep 22A)
 SSE066B Dr. O No (Ep 22B)
 SSE067A Negative Town (Ep 23A)
 SSE067B License to Science (Ep 23B)
 SSE068A Two Agents and a Baby (Ep 24A)
 SSE068B Ocean and the Fly (Ep 24B)
 SSE069A Hands on a Desk Chair (Ep 25A)
 SSE069B There's No 'O' in Obot (Ep 25B)
 SSE070A Shapely University (Ep 26A)
 SSE070B Slow Day (Ep 26B)
 SSE071A Villains in Need are Villains Indeed (Ep 27A)
 SSE071B Happily Ever Odd (Ep 27B)
 SSE072A Haunt Squad (Ep 28A)
 SSE072B Safe House in the Woods (Ep 28B)
 SSE073A Where There's a Wolf, There's a Way (Ep 29A)
 SSE073B New Jacket Required (Ep 29B)
 SSE074A Deposit Slip Up (Ep 30A)
 SSE074B Villains Always Win (Ep 30B)
 SSE075A Other Olympia (Ep 31A)
 SSE075B Total Zeroes (Ep 31B)
 SSE077A It Takes Goo to Make a Feud Go Right (Ep 32A)
 SSE077B Friends of Odd Squad (Ep 32B)
 SSE078A Saving Agent Orson (Ep 33A)
 SSE078B The Scientist (Ep 33B)
 SSE079A Who is Agent Otis? Part 1 (Ep 34A)
 SSE079B Who is Agent Otis? Part 2 (Ep 34B)
 SSE080A Odds and Ends Part 1 (Ep 35A)
 SSE080B Odds and Ends Part 2 (Ep 35B)

Visit www.mcintyre.ca for episode descriptions and previews.

If you subscribe to **ON-CORE** or **CAN-CORE**, you have access to all of these episodes plus curriculum correlations.





The Prime Radicals Series

For Grades K-6 Season 1: 2011 Season 2: 2013

GAPC Productions

A fun-filled series with scenarios showing how math is used for everything from clubhouse renovations to cooking, *The Prime Radicals* makes numbers cool for kids. Based on Dr. Lynda Colgan's (Professor of Elementary Mathematics Education, Queen's University) Kingston Whig-Standard newspaper columns, it is clearly meets the need for a fresh and innovative approach to math education.

Each 14-minute episode takes viewers to Uncle Norm's workshop, usually the scene of his latest misadventure. *The Radicals*—cousins Kevin and Alanna—come to the rescue every time. They enlist experts, such as a kite boarder, rancher or maple syrup expert, to help them solve Uncle Norm's problems with mathematical solutions.

The Prime Radicals shows children that mathematics is around us all the time—from cooking to magic tricks, and from making change to meteorology. The series dispels math myths by using real-world examples and by focusing on positive outcomes.

SEASON 1:

GAP023	Rule of Thumb
GAP024	No Accounting for Taste
GAP025	Ace the Lace
GAP026	Rad 'n Roll
GAP027	Numberlicious
GAP028	Anything with Anything
GAP029	Code Name - Rad
GAP030	Tessellational!
GAP031	Let's Face It!
GAP032	True Grid
GAP033	Radical Reflections
GAP034	Thinking Inside the Box
GAP035	To Infinity and Beyond
GAP036	Leader of the Pack
GAP037	Know When To Fold 'Em
GAP038	Totally A Maze Thing!
GAP039	So You Think Uncle Norm Can Dance?
GAP040	It's All About Time!
GAP041	Meeting the Standard
GAP042	Going the Distance
GAP043	The Cubic Rube
GAP044	Thinking About Linking
GAP045	A Cute Look at Angles
GAP046	How Things Stack Up... And Down
GAP047	A Balancing Act
GAP048	Show Me the Money

Series Order #GAP022: \$1794 (26 programs):
DVD or 3 yr Streaming Rights (K-12 Single Site)
Individual titles: \$69 each

SEASON 2:

GAP050	Getting Around
GAP051	In the Mode
GAP052	Colouring Inside the Lines
GAP053	Take Me To Your Litre
GAP054	And Five Makes Ten!
GAP055	The Kilo Conundrum
GAP056	Uncle Norm's Roots
GAP057	Think of All The Probabilities!
GAP058	Playing the Angles!
GAP059	Tangled Up In String
GAP060	The Bunnies' OK Corral
GAP061	Get In On The Fraction Action
GAP062	Time And Again
GAP063	Mathemagic
GAP064	Once Upon Five Minutes of Time
GAP065	Taking Your Temperature
GAP066	Diamond in the Rough
GAP067	Slides, Flips, Turns and Quilts
GAP068	Scale Me Up!
GAP069	An Equal Share is Always Fair!
GAP070	I'm Diggin' Those Calculations
GAP071	Cracking the Code!
GAP072	There's Magic In Those Squares
GAP073	What Are The Chances?
GAP074	Working On My Tangram
GAP075	Go Fly A Kite!

Series Order #GAP049: \$1794 (26 programs):
DVD or 3 yr Streaming Rights (K-12 Single Site)
Individual titles: \$69 each



Coding for Kids Video Streaming Playlist

Grades JK-2 2020 30 min (8 segments) Educational Voice
Digital technology is a big part of the lives of many children today, as our children are surrounded by the Internet with smartphones, computers, video games, etc., which pushes us towards teaching programming to children. Like learning physics, mathematics, chemistry or biology, it is important for children to understand the basic building blocks of an integral part of their lives. Teaching coding to children helps them realize that what is happening around them is not magic, and that they can create useful applications and games on their own. In these fun, animated sequences, Aaron teaches us some important coding tips and techniques!

Playlist includes the following 8 videos:

Python; Block Coding; Coding Courses; Games and Coding; Binary; Coding Words; What is Coding?; Game Based Coding.

#992175PL \$199: 3 yr Streaming Rights (K-12 Single Site)



Wacky Number Songs Playlist

Grades JK-5 2021 80 min (40 songs x 2 min) Apartment 11
Wacky Number Songs is a collection of 40 video songs about math-related concepts. Performed by Ava, each song is a zany, fun-filled number that explores numbers and math concepts from all angles! Based on the curriculum, the songs inspire kids to see math all around us -from the kitchen to the soccer field -all while singing along to the catchiest, coolest tunes. Some of the highlights include how to save money; the four kinds of quadrilaterals; capacity of containers; polygons; measuring angles; units of time; math in sports; and much, much more. Visit www.mcintyre.ca for complete list and descriptions.

#APT497 \$299: 3 yr Streaming Rights (K-12 Single Site)



Grades JK/SK students 2021 35 min/ 15 short episodes
GAPC Productions

In these 15 short video segments, **Polkaroo** takes us on a romp through the city, the suburbs and the countryside to discover counting from 1-15.

The focus of episodes is on “counting” using contexts to help children to understand the connection between a quantity and the number name and symbol that represent it. Since children need multiple opportunities to make the connection between the number name, the symbol, and the quantity represented, these multiple representations are a focus of every number episode.

All episodes reinforce the important notion of collaboration—working together to find a solution and working together to be inclusive and celebrate everyone’s efforts.

Collectively, the episodes reflect the principles of equity, diversity and inclusion because of the wide representation of children cast to be Polkaroo’s friend.

Use as a prompt for **daily “math talk”** or use as **homework** for children to watch with a family member or caregiver and ask the adults to share the discussion following the “on demand” view in the child’s student agenda.

#GAP104 \$199: DVD or 3 yr Streaming Rights (K-12 Single Site)



The Lucas Detective Series

Grades JK-2 2021 5-10 min ea Educational Voice
Lucas and his robot friend Yobi are called upon to solve mysteries. In each of these short animated episodes, your elementary students follow along as Lucas uses his problem-solving skills to help his friends. This series is a good way to introduce children to STEM subjects.

Series Order #992075 \$790 (10 programs):

DVD or 3 yr Streaming Rights (K-12 Single Site)

Individual titles: \$79: DVD or 3 yr Streaming (K-12 Single Site)

#992076	The Mystery of Sally's Sick Goldfish
#992077	The Mystery of the Stolen Sandwich
#992078	The Mystery of The Missing Car Keys
#992079	The Mystery in The Library
#992080	Mystery of Uncle George's Missing Hat
#992081	Mystery of The Parcel in the Snow
#992082	The Mystery at Rosewood Farm
#992083	The Mystery of Grandma Emily's Missing Cat
#992084	Mystery at the Funfair
#992085	The Mystery of The Missing Gymnastic Suit

Primary Maths Series 1

Grades PreK – 2 6-14 min ea 2020 Educational Voice
Here's an animated Maths series for your primary students. Young students will learn basic math principles such as addition, subtraction, sorting and telling time.

Series Order #992035 \$790 (10 programs):

DVD or 3 yr Streaming Rights (K-12 Single Site)

Individual titles: \$79: DVD or 3 yr Streaming (K-12 Single Site)

#992036	Subtraction 0-20
#992037	Sorting
#992038	Patterns
#992039	Numbers: 1-20
#992040	Addition 1-20
#992041	Addition 1-5
#992042	Addition 6-10
#992043	Subtraction 1-5
#992044	Time
#992198	Subtraction 6-10

Primary Maths Series 2

Grades PreK – 2 2020 8-11 min ea Educational Voice
Here's an animated Maths series for your primary students. Young students will learn basic math principles such as adding and subtracting to 100, multiplication, patterns, 2D shapes plus how to use calendars, compass points.

Series Order #992045 \$790 (10 programs)

DVD or 3 yr Streaming Rights (K-12 Single Site)

Individual titles: \$79: DVD or 3 yr Streaming (K-12 Single Site)

#992046	Multiplication Times Table
#992047	Using Timetables
#992048	Calendars
#992049	Compass Points
#992050	Addition and Subtraction to 100
#992051	Measuring
#992052	Earning Money
#992053	Directions
#992054	Addition 0-100
#992055	2D Shapes

Intermediate Maths Series 3

Grades 2-6 2020 7-11 min ea Educational Voice
In each engaging, animated program, students learn an important math concept such as adding and subtracting large numbers, problem solving skills, multiplication, division, fractions, decimals, 3D shapes and financial literacy.

Series Order #992056 \$1422 (18 programs)

DVD or 3 yr Streaming Rights (K-12 Single Site)

Individual titles: \$79: DVD or 3 yr Streaming (K-12 Single Site)

#992057	Analogue and Digital Time
#992058	Subtraction to 10,000
#992059	Problem Solving
#992060	Numbers 1 to 10,000
#992061	Number Patterns
#992062	Multiply One Digit
#992063	Multiplication
#992064	Multiplication Tables Tricks
#992065	Long Multiplication
#992066	Fractions
#992067	Decimals
#992068	Current and Savings Account
#992069	Bank Account
#992070	Area
#992071	3D Shapes
#992072	Division
#992073	Addition to 10,000
#992074	Angles

MATHEMATICS

Basic Math Concepts Series

Grades K-3 Wonderscape Entertainment

Geometry - Learning Shapes Vol.1



Series Order #WE0002 (7 programs): \$903
DVD or 3 yr Streaming Rights (K-12 Single Site)
Individual titles: \$129 ea

Here's a fun series that will help young students understand basic math concepts. The programs stress understanding and introduce concepts carefully, then weaves them together throughout each program. Lessons are designed to introduce concepts at a reasonable rate and help students make connections between important concepts.

The series consists of the following programs:

#WE0018	Geometry - Learning Shapes, Vol. 1
#WE0019	Geometry - Learning Shapes, Vol. 2
#WE0009	Counting and Comparing Numbers
#WE0004	Telling and Writing Time
#WE0003	Place Value, Base 10 and Symbols for Comparing Numbers
#WE0010	Understanding Bar Graphs
#WE0030	Introduction to Fractions

FINANCIAL LITERACY



Money Kids Series

Grades 6-12 2022 22 min ea Wonderscape Entertainment

Research shows that children benefit from learning about how money works at a young age. Prepare young students by teaching them about finances so they understand the basics of currency.

Series Order #WE0069 \$258 (2 programs): DVD or 3 yr Streaming Rights (K-12 Single Site)

Cryptocurrency and NFTs - What I Need to Know

In this program, learn all about cryptocurrency and NFTs. What is cryptocurrency? What are NFTs? What are the benefits and dangers of cryptocurrency? How is it different from currency issued by the government? How is it different than stocks? The answers to all of these questions and more are covered in depth with detailed graphics, diagrams and exciting video that reinforce important concepts and make learning fun.

#WE0070 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)

Inflation - Why is Everything More Expensive?

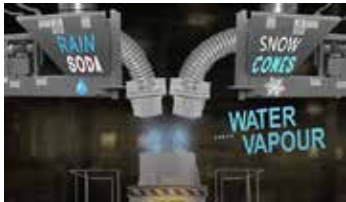
In this program, learn all about inflation. What is inflation and what causes it? What is the history of inflation? What led to the inflation crisis of 2022? Where do we go from here? The answers to all of these questions and more are covered in depth with detailed graphics, diagrams and exciting video that reinforce important concepts.

#WE0071 \$129: DVD or 3 yr Streaming Rights (K-12 Single Site)

If you have a subscription to **CORE** you also have exclusive access to hundreds of short segments from BBC Learning. For 100 years, BBC content has entertained, educated, informed and inspired! McIntyre Media is proud to have formed this partnership with one of the world's finest producers of educational video content.

Here's just a small sample of what is available.

To find more, login to your **CORE** account, and do an **Advanced Search by producer** - click on **BBC Learning**.



Let it Snow!

This fun segment gives an overview of the different types of snow, sleet and hail. How does temperature affect crystals? Can snowflakes be

identical? All your questions are answered here!



What's a Cloud?

What is a cloud? This segment gives a brief overview of how clouds are formed, their behaviour and how they are

classified - cumulus, stratus, fog, cirrus.

Where Does Rain Come From?



Examines the hydrologic cycle or water cycle. Heat from the sun causes water to evaporate from oceans, lakes and streams. Evaporation occurs when liquid water on Earth's

surface turns into water vapour in our atmosphere. As this vapour rises into the air, vapour cools off ready to condense back into liquid.

Glaciers: How They are Formed



Dr. Iain Stewart shows us how ice is formed and also explains how the transformation from snow to ice can create one of the most destructive forces on the planet.



What Makes Popcorn Pop?

Learn the science of popping popcorn in this fun segment. Explosions occur when there is a sudden expansion of gas:

that's what happens when popcorn pops.

The Migration of the Monarch Butterfly



Our host Chris looks at some of the most extraordinary behaviours and extreme adaptations that animals have developed to survive.

He describes the incredible

superpowers of the monarch butterfly. Feeding on milkweed, monarch butterflies can fly as far north as Canada, but when the temperature changes they make the epic journey south to Mexico, stopping in groups of millions in places like the forests of Pacific Grove, California.

The Cell, Part 1: Adenovirus After 24 Hours

The Cell, Part 2: Blueprints for the Cells Destructions

The Cell, Part 3: Internal Battles Against a Virus

The Cell, Part 4: Proteins and White Blood Cells



There is a battle playing out inside your body right now. It started billions of years ago and it is still being fought in every one of us every minute of every day. It is the story of

a viral infection - the battle for the cell.

Robert Remak: The Discovery of Cell Division



Robert Remak was a Jewish Polish-German embryologist, physiologist, and neurologist, born in Posen, Prussia. He discovered that the origin of

cells was a process involving the division of pre-existing cells. In this segment, Remak's experiment using chicken embryos is recreated.

Internet of Things

Years after the world wide web was created, it is now caught in the greatest controversy of its existence - surveillance. Where does the outside world stop and private space begin? Smart technology, "the internet of things", can connect home objects to the internet, but it requires you to share private details of your life and you have to trust a company to keep this confidential. As our homes becomes more connected, the internet is asking us to redefine what we consider private.

Fibre Optics

Fiber optic cables carry 95% of global communication, but what exactly are they?

Theodor Boveri: Process of Cell Division

An examination of Theodor Boveri's discovery. What would be the effect of adding extra sperm into the egg cell? The process of cell division is disrupted and led to mutant embryos. Conclusion: a cell needed exactly one set of chromosomes from each of egg and sperm.

Properties of Light

Today we know that light is made up of many different wavelengths extending well beyond the range of visible light. Because light behaves like a wave, seeing beyond the visible has allowed us to peer deeply into the cosmos, and glimpse the beginning of the universe.

Why is Water Blue?

Of all the colours, one in particular glows back out into space - the iconic blue of our oceans, a colour caused but the unique way that light interacts with water. In this segment Professor Brian Cox travels to Iceland, where the delicate splendor of a moonbow reveals why water looks blue.

How Humans Impact Soil

For billions of years our planet was devoid of life, but something transformed it into a vibrant, living planet. That something was soil.

Soil: How It's Made

Gardening expert Chris Beardshaw examines what soils are made from.

Human Body Language Helps Computers Learn Emotions

Professor Peter Robinson, University of Cambridge, teaches a computer to recognize and learn facial expressions.

4D Building: Changing with Time

Can energy sources activate materials? Skylar Tibbitts, an Architect and Computer Scientist from MIT discusses buildings that build themselves - lean, simple and elegant structures that respond dynamically. 4D printing would allow parts to change and adapt over time.

Secrets of the Human Body: Body Temperature

Maintaining a 98.6 degree Fahrenheit temperature is the body's top priority. In this program, see Norwegian children plunging in a freezing lake. Professor Mike Tipton studies survival in extreme environments. Skin receptors alert the brain to severe cold, triggering mechanisms such as shivering; increased carbon dioxide levels threaten chemical balance.

Population Growth: What is Our Carrying Capacity

Naturalist Sir David Attenborough reflects on the profound effects of rapid population growth, both on humans and the environment.

Future of Mars

Today, Mars is an arid desert world that long ago had the same potential as Earth. Which begs a big question: did life get a start on both worlds? In search of the answer, plans are afoot to take humans to the red planet - so perhaps one day soon we will become the Martians.



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