

The Scientist in Residence Program
Science Lesson Plans (2004 – 2017)

Welcome!

The lesson plans in this archive are organized into theme-based units. Lessons are listed in the order they were delivered to students. However, individual lessons can also stand alone.

Life Science Lessons

Unit #	Ref. #		Developed for Grade:	Appropriate for Grade:
"Animal Growth and Changes"				
1	n/a	1	Introductory Discussion - Thinking Like a Scientist	2 - 3 1 - 7
	SRP0262	2	Measuring Living Things	2 - 3 1 - 7
	SRP0263	3	How Does Temperature Affect Animals	2 - 3 1 - 7
	SRP0264	4	Field trip to George C. Reifel Bird Sanctuary	2 - 3 1 - 7
	SRP0265	5	Field trip to Hastings Park Pond	2 - 3 1 - 7
	SRP0266	6	Metamorphosis	2 - 3 1 - 7
	SRP0267	7	Owl Pellet Dissection	2 - 3 1 - 7
"Animals, Matter and Mankind in the Environment"				
2	SRP0294	1	States of Matter - Oobleck and Baking Soda Eruption	K - 3 K - 4
	SRP0295	2	Water, Whales and Sound	K - 3 K - 4
	SRP0296	3	Timeline of Life	K - 3 K - 4
	SRP0297	4	Leatherback Satellite Tag Simulation	K - 3 K - 4
"Aquatic Ecosystems"				
3	SRP0083	1	Exploring Marine Objects	K and 3 K - 7
	SRP0084	2	Marine Organisms	K and 3 K - 7
	SRP0085	3	Marine Field Trip to Whytecliff Park	K and 3 K - 7
	SRP0086	4	Ponds and Pond Organisms	K and 3 K - 7
	SRP0087	5	Pond Food Chains and Webs	K and 3 K - 7
	SRP0088	6	Burnaby Lake Field Trip	K and 3 K - 7
	SRP0089	7	Water Cycle and Ecosystems	K and 3 K - 7
	SRP0090		Aquatic Ecosystems_VSB media bookings	K and 3 K - 7
	SRP0213		Seaweed Identification	4 2 - 7
	SRP0243		Sandy Beach Study	K - 3 K - 7
"Belugas"				
4	SRP0354	1	Float Sink	2 2 - 5
	SRP0355	2	Whales Use Sound to Communicate	2 2 - 5
	SRP0356	3	Whales Use Sound to Find Prey	2 2 - 5
	SRP0357	4	Beluga Adaptations (Blubber Gloves)	2 2 - 5
	SRP0358	5	Food Webs	2 2 - 5

Life Science Lessons - *continued*

Unit #	Ref. #			Developed for Grade:	Appropriate for Grade:
"Biodiversity and Extreme Environments"					
5	SRP0206	1	Extreme Environments	5 - 7	4 - 8
	SRP0207	2	Deep Sea Vents	5 - 7	4 - 8
	SRP0208	3	Measuring Biodiversity	5 - 7	4 - 8
	SRP0209	4	Intertidal Field Trip	5 - 7	4 - 8
	SRP0210	5	Analyzing Intertidal and Deep Sea Vent Communities	5 - 7	4 - 8
"Biodiversity of Local Habitats"					
6	SRP0239	1	Exploring an Ecosystem	5 - 7	2 - 7
	SRP0278	2	Field Trip to Camosun Bog	5 - 7	2 - 7
	SRP0280	3	Field Trip to Beaty Biodiversity Museum	6 and 7	4 - 8
"Biological Inquiry"					
7	SRP0388	1	Decomposition	4 - 6	4 - 7
	SRP0389	2	Cheese	4 - 6	4 - 7
	SRP0390	3	Brine Shrimp Response to Light	4 - 6	4 - 7
	SRP0391	4	Human Physiology	4 - 6	4 - 7
"Decomposers and Recyclers"					
8	SRP0274	1	The World of Fungi	K - 3	K - 7
	SRP0275	2	Snails and Slugs	K - 3	K - 5
	SRP0276	3	Wood Bugs	K - 3	K - 5
	SRP0277	4	Field Trip to Burns Bog	K - 3	K - 7
"Discovering Life in Local Habitats"					
9	SRP0179	1	Urban Life: What Lives in Our School Yard?	1 - 2	K - 7
	SRP0180	2	Urban Life: What Lives in Our Local Park?	1 - 2	K - 7
	SRP0181	3	Rainforest Life: UBC Botanical Garden Field Trip	1 - 2	K - 7
	SRP0182	4	Forest Life: Wood Bug Study	1 - 2	K - 7
	SRP0183	5	Beach Life: Clam Dissection	1 - 2	K - 7
	SRP0184	6	Beach Life: Spanish Banks Field Trip	1 - 2	K - 7
	SRP0219	1	Animals in Winter	K - 1	K - 7
	SRP0221	2	Bears	K - 1	K - 7
	SRP0222	3	Worms	K - 1	K - 7
	SRP0288	1	What is a Habitat?	2 - 4	1 - 7
	SRP0289	2	Introduction to Pond Specimens	2 - 4	1 - 7
	SRP0290	3	Identifying Pond Animals	2 - 4	1 - 7
	SRP0291	4	Field Trip to Jericho Pond	2 - 4	1 - 7
	SRP0292	5	Introduction to Forest Habitats	2 - 4	1 - 7
	SRP0293	6	Identifying Forest Trees and Plants	2 - 4	1 - 7

Life Science Lessons - *continued*

Unit #	Ref. #		Developed for Grade:	Appropriate for Grade:
"DNA"				
10	SRP0258	Lesson 1_DNA	1 - 3	K - 7
"Ecologists Grow a Garden"				
11	SRP0250	1 Garden Ecosystem	4 - 5	2 - 7
	SRP0251	2 The Northwestern Crow - Think Like a Scientist	4 - 5	2 - 7
	SRP0252	3 Habitat Garden	4 - 5	2 - 7
	SRP0253	4 Blue Orchard Mason Bee	4 - 5	2 - 7
	SRP0254	5 UBC Farm and Forest Field Trip	4 - 5	2 - 7
	SRP0255	6 Compare Invertebrate Diversity: School Ground and Forest	4 - 5	2 - 7
	SRP0256	Organism Research Workbook	4 - 5	4 - 7
	SRP0257	Organism Research Workbook	4 - 5	4 - 7
	SRP0281	Garden Soil Earthworm Census	2 - 3	K - 7
"Ecosystem Models"				
12	SRP0066	1 Measurement of Biotic and Abiotic Objects	6 - 7	4 - 7
	SRP0067	2 Food Webs and Making Miniature Ecosystems	6 - 7	4 - 7
	SRP0068	3 Modeling Changes to Ecosystems Part 1	6 - 7	4 - 7
	SRP0069	4 Modeling Changes to Ecosystems Part 2	6 - 7	4 - 7
	SRP0070	5 Stanley Park and Aquarium Field Trip	6 - 7	4 - 7
	SRP0071	6 Models as Tools for Ecosystem Management	6 - 7	4 - 7
"Exploring Biodiversity"				
13	SRP0359	1 Observing Questioning	K - 2	K - 3
	SRP0360	2 Science Questions	K - 2	K - 3
	SRP0361	3 Basic Needs of Animals	K - 2	K - 3
	SRP0362	4 Life is Interconnected	K - 2	K - 3
	SRP0363	5 Field Trip to Crescent Beach	K - 2	K - 3
	SRP0364	6 Why Does the Animal Look Like That?	K - 2	K - 3
	SRP0365	7 Field Trip to Central Park Forest	K - 2	K - 3
"Exploring Nature with Our Senses"				
14	SRP0323	1 Paper Whites	K - 3	K-3
	SRP0324	2 Apples	K - 3	K-3
	SRP0325	3 Fir Trees	K - 3	K-3
	SRP0326	4 Snail Search	K - 3	K-3
"Fisheries"				
15	SRP0341	1 Researching Ocean Zones	5	4 - 7
	SRP0342	2 Threats to the Ocean	5	4 - 7

Life Science Lessons - *continued*

Unit #	Ref. #		Developed for Grade:	Appropriate for Grade:
"Forest Ecosystems"				
16	SRP0051	1	Trophic Levels	1 - 2 1 - 5
	SRP0052	2	Producers - Focus on Trees	1 - 2 1 - 4
	SRP0053	3	What do snails eat?	1 - 2 1 - 4
	SRP0054	4	Decomposers - Nurse Logs	1 - 2 1 - 4
	SRP0055	5	Decomposers - Terrarium	1 - 2 1 - 4
	SRP0056	6	Exploring a Forest - Field Trip to Lynn Canyon	1 - 2 1 - 4
	SRP0057		Forest Ecosystem Citations and Source Information for Photos	
"Growing Plants"				
17	SRP0017	1	Plant Reproduction	3 - 5 2 - 7
	SRP0018	2	Designing a Germination Experiment - Part 1	3 - 5 2 - 7
	SRP0019	3	Designing a Germination Experiment - Part 2	3 - 5 2 - 7
	SRP0020	4	Microscopy Exercises	3 - 5 2 - 7
	SRP0021	5	Contrasting Landscapes - UBC Farm Field Trip	3 - 5 2 - 7
	SRP0211	6	Effects of Salt on Germination	4 2 - 7
"Human Anatomy - How do We Move?"				
18	SRP0097	1	The Skeletal System	3 - 5 3 - 7
	SRP0098	2	The Muscular System	3 - 5 3 - 7
	SRP0099	3	The Circulatory System	3 - 5 3 - 7
	SRP0100	4	The Respiratory System	3 - 5 3 - 7
	SRP0101	5	The Digestive System	3 - 5 3 - 7
	SRP0102	6	The Nervous System	3 - 5 3 - 7
"The Journey of the Pacific Salmon"				
19	SRP0077	1	From Stream to Sea	3 2 - 5
	SRP0078	2	The Salmon Stream & Vegetation	3 2 - 5
	SRP0079	3	The Salmon Estuary & Human Impacts	3 2 - 5
	SRP0080	4	Salmon in the Open Ocean & Fishing	3 2 - 5
	SRP0081	5	Salmon & Non-Native Species	3 2 - 5
	SRP0082	6	Salmon in the Stream & Fishing	3 2 - 5
	SRP0214	1	Salmon Anatomy	5 - 6 2 - 7
	SRP0215	2	Salmon Eggs and Redds	5 - 6 K - 7
	SRP0216	3	Smolting	5 - 6 3 - 7
	SRP0218	4	Salmon Migration: Changing Appearances	5 - 6 3 - 7
	SRP0310	1	The Water Cycle	K - 2 K - 4
	SRP0311	2	Recording the Catch	K - 2 K - 4
	SRP0312	3	Salmon Eggs and their Habitats	K - 2 K - 4
	SRP0313	4	Salmon Anatomy and Dissection (Primary)	K - 2 K - 4
SRP0314	5	Predators and Prey Mystery Box	K - 2 K - 4	

Life Science Lessons - *continued*

Unit #	Ref. #		Developed for Grade:	Appropriate for Grade:
"Living with Oxygen"				
20	SRP0269	1	Experimental Design - Breath Hold Ability	7 6 - 7
	SRP0270	2	Oxygen Consumers - Mammalian Diving Response	7 6 - 7
	SRP0271	3	Researching and Communicating Science	7 6 - 7
	SRP0272	4	Oxygen Producers - Plants and The Cycle of Life	7 6 - 7
	SRP0273	5	Beaty Biodiversity Museum Field Trip	7 6 - 7
"Marine Biodiversity: Global Ocean to the Salish Sea"				
21	SRP0366	1	Adaptation Card Game	3 3 - 7
	SRP0367	2	Design a Creature	3 3 - 7
	SRP0368	3	Comparing Clams and Mussels (Dissection)	3 3 - 7
	SRP0369	4	Barnacle Study	3 3 - 7
	SRP0370	5	Energy Tag	3 3 - 7
	SRP0371	6	Experiment: Shells Soaking in Acid	3 3 - 7
"Marine Critters and Communities"				
22			<i>(*worksheets include French Immersion content)</i>	
	SRP0091	1	*Ocean Exploration	2 - 3 1 - 6
	SRP0092	2	Animals & Plants of BC's Rocky Shore - Habitat Preferences	2 - 3 1 - 6
	SRP0093	3	*Animals & Plants of BC's Rocky Shore - Species Interactions	2 - 3 1 - 6
	SRP0094	4	Rocky Shore Field Trip	2 - 3 1 - 6
	SRP0095	5	Marine Animal & Plant Adaptations	2 - 3 1 - 6
	SRP0096	6	People & the Ocean	2 - 3 1 - 6
	SRP0233	1	Introduction to the Life of a Marine Scientist	7 5 - 7
	SRP0234	2	Understanding Ocean Acidification with Brine Shrimp	7 4 - 7
	SRP0235	3	Exploring Intertidal Biodiversity	7 4 - 7
	SRP0236	4	Intertidal Field Trip to Jericho Beach	7 4 - 7
	SRP0237	5	Intertidal Field Trip to Stanley Park	7 4 - 7
	SRP0238	6	The Role of Sound in the Lives of Marine Animals	7 5 - 7
"Meet Me at the Beach"				
23	SRP0315	1	What's at the Beach?	K K - 3
	SRP0316	2	Primary Intertidal Field Trip #1	K K - 3
	SRP0317	3	Plant and Algae Specimen Study	K K - 3
	SRP0318	4	Primary Intertidal Field Trip #2	K K - 3
	SRP0319	5	The Water is Alive with Plankton!	K K - 3

Life Science Lessons - *continued*

Developed
for Grade: Appropriate
for Grade:

Unit #	Ref. #		"Oceans of Energy"		
24	SRP0335	1	Plankton	4	4 - 7+
	SRP0336	2	It's All Connected	4	4 - 7+
	SRP0337	3	Energy Transfer	4	4 - 7+
	SRP0338	4	Sustainable Fisheries	4	4 - 7+
	SRP0339	5	Into the Deep	4	4 - 7+
	SRP0340	6	Bacteria Viruses	4	4 - 7+

Unit #	Ref. #		"Pacific Salmon and Mountain Pine Beetle"		
25	SRP0072	1	Fish Anatomy	2	2 - 7
	SRP0073	2	Fish Hazards	2	2 - 7
	SRP0217		Sea Lice Handout	5 - 6	3 - 7
	SRP0074	3	Salmon Migration	2	1 - 4
	SRP0075	4	Forest Ecology	2	1 - 4
	SRP0076	5	Mountain Pine Beetle	2	1 - 7

Unit #	Ref. #		"Plants"		
26	SRP0001	1	Seed Structure and Seed Dispersal	3	2 - 5
	SRP0002	2	Seed Diversity	3	1 - 4
	SRP0003	3	Seed Germination	3	1 - 5
	SRP0004	4	Forest Ecosystem Field Trip	3	2 - 6
	SRP0005	5	Plant Growth Light and Shade	3	2 - 6
	SRP0006	6	Plant Parts and Their Function	3	2 - 5
	SRP0007	7	Soil Composition	3	2 - 4
	SRP0008	8	Using Plant Pigments as Natural Dyes	3	1 - 7
	SRP0009	9	Land Plants and Algae	1 and 3	1 - 6
	SRP0010	10	Plant Lifecycles	1 and 3	1 - 6
	SRP0279	11	Plant Collectors	1 - 2	1 - 7

Unit #	Ref. #		"Plants 'n' Bugs"		
27	SRP0028	1	Flowers and Pollination	2	2 - 5
	SRP0029	2	Insects around Us	2	2 - 5
	SRP0030	3	Pollination Experiment	2	2 - 5
	SRP0031	4	Bugs in the Woods	2	2 - 5
	SRP0225		Plant Colours and Smells	K - 1	2 - 7

Life Science Lessons - *continued*

Unit #	Ref. #		Developed for Grade:	Appropriate for Grade:
28	SRP0022	1	"Plants & Animals Through the Stages of Ecological Life"	
			6 - 7	3 - 7
	SRP0023	2	6 - 7	3 - 7
	SRP0024	3	6 - 7	4 - 7
	SRP0025	4	6 - 7	4 - 7
	SRP0026	5	6 - 7	4 - 7
	SRP0027	6	6 - 7	4 - 7
Unit 2	Ref. #	"Plants & Ecosystems"		
29		<i>(includes French Immersion content)</i>		
	SRP0011	1	2 - 3	1 - 4
	SRP0012	2	2 - 3	1 - 4
	SRP0013	3	2 - 3	1 - 4
	SRP0014	4	2 - 3	1 - 4
	SRP0015	5	2 - 3	1 - 7
	SRP0016	6	2 - 3	1 - 7
Unit #	Ref. #	"Soils, Plants and First Nations"		
30	SRP0058	1	1 - 3	1 - 5
	SRP0059	2	1 - 3	1 - 5
	SRP0060	3	1 - 3	1 - 5
	SRP0061	4	1 - 3	1 - 5
	SRP0062	5	1 - 3	1 - 5
	SRP0063	6	1 - 3	1 - 5
Unit #	Ref. #	"Temperate Forest"		
31	SRP0032		1 - 2	K - 3
	SRP0033		1 - 2	1 - 4
	SRP0034		1 - 2	1 - 7
	SRP0035		1 - 2	K - 4
	SRP0036		1 - 2	1 - 7
	SRP0037		1 - 2	1 - 7
	SRP0038		1 - 2	1 - 4
	SRP0039		1 - 2	1 - 4
	SRP0040		1 - 2	1 - 5
	SRP0041		1 - 2	1 - 3
	SRP0042		1 - 2	1 - 7
	SRP0043		1 - 2	1 - 4
	SRP0044		1 - 2	1 - 3
	SRP0045		1 - 2	1 - 5
	SRP0046		3 - 4	3 - 7

Life Science Lessons - *continued*

Unit #	Ref. #		Developed for Grade:	Appropriate for Grade:
		"Temperate Forest" <i>Continued</i>		
<i>cont'd</i>	SRP0047		3 - 4	2 - 6
31	SRP0048	Dissecting Owl Pellets	1 and 3	1 - 6
	SRP0049	Tree Top Canopy Field Trip	1 - 2	1 - 7
	SRP0050	Pond Life	1 - 2	1 - 7
	SRP0212	Making Recycled Paper	4	2 - 7
		Uses of Forest Plants by Lower Mainland First Nations Peoples		
		"Urban Biology"		
32	SRP0064	1 Habitat Choice In Wood bugs	6 - 7	4 - 7
	SRP0065	2 Can Fish Detect Odours?	6 - 7	4 - 7
		"The Wonders of Bird Diversity"		
33	SRP0375	1 How Do Birds Move?	2 - 3	2 - 7
	SRP0376	2 Why are Birds Beaks Shaped Like That?	2 - 3	2 - 7
	SRP0377	3 Why are Birds Wings Shaped Like That?	2 - 3	2 - 7
	SRP0378	4 Create a Bird and it's Habitat	2 - 3	2 - 7
	SRP0103	Stereo Microscope Lesson	2	1 - 7

Lessons in the Physical Sciences (Physics & Chemistry)

Unit #	Ref. #		Developed for Grade:	Appropriate for Grade:
		"Concepts in Electricity"		
34	SRP0298	1 Taking a Scientific Approach	6	6 - 7
	SRP0299	2 Building Electromagnets	6	6 - 7
	SRP0300	3 Circuits in Series	6	6 - 7
	SRP0301	4 Parrallel Circuits	6	6 - 7
	SRP0302	5 Magnetic Fields and Iron Filings Art	6	6 - 7
		"The Electron: Conductivity and Chemistry"		
35	SRP0226	1 Introduction to the Scientist	6 - 7	1 - 7
	SRP0227	2 Particle Model of Matter	6 - 7	5 - 7
	SRP0228	3 How Batteries Work	6 - 7	6 - 7
	SRP0229	4 Making a Food Battery	6 - 7	5 - 7
	SRP0230	5 Making a Speaker	6	5 - 7
	SRP0231	6 Material Classification	7	5 - 7
	SRP0232	7 Building a Simple Motor	7	5 - 7

Lessons in the Physical Sciences (Physics & Chemistry) - *continued*

Unit #	Ref. #		Developed for Grade:	Appropriate for Grade:
"Electricity with Applications"				
36	SRP0134	1	Elements	5 - 6 5 - 7
	SRP0135	2	Series and Parallel Circuits	5 - 6 5 - 7
	SRP0136	3	Buzzer	6 5 - 7
	SRP0137	4	Electric Motors	6 5 - 7
	SRP0138	5	Speakers	6 5 - 7
	SRP0185	6	Field Trip to Stave Falls Generating Station	6 5 - 7
"Energy Transfer and Simple Machines"				
37	SRP0372	1	Hot Wheels, Ramps and Energy Transfer	4 - 5 4 - 7
	SRP0373	2	Water Wheels, Work and Energy Transfer	4 - 5 4 - 7
	SRP0374	3	Spring Catapults: Testing $F = MA$	4 - 5 4 - 7
"Exploring Chemistry"				
38	SRP0348	1	Changing States of Water	3 - 5 3 - 7
	SRP0349	2	Cystrals and Chromatography	3 - 5 3 - 7
	SRP0350	3	Alka Seltzer Rockets	3 - 5 3 - 7
	SRP0351	4	Plant Colour and pH	3 - 5 3 - 7
	SRP0352	5	Slime Oobleck	3 - 5 3 - 7
	SRP0353	6	Bread and Butter	3 - 5 3 - 7
"Force and Motion"				
39	SRP0104		Force and Motion - Part 1	1 - 2 1 - 5
	SRP0105		Force and Motion - Part 2	1 - 2 1 - 5
	SRP0241		Sledding and Friction	K - 3 K - 7
	SRP0320		Potential and Kinetic Energy	5 - 7 5 - 7
	SRP0321		Levers, Fulcrums and Pulleys	5 - 7 5 - 7
	SRP0322		Water Wheels and Gravitational Energy	5 - 7 5 - 7
"Matter"				
40	SRP0106		Solids Liquids and Gases - Part 1	1 - 2 1 - 4
	SRP0107		Solids Liquids and Gases - Part 2	2 - 3 1 - 4
	SRP0108		Physical Changes to Matter	1 - 2 1 - 4
	SRP0109		Changing States of Matter - Making Ice Cream	2 - 3 1 - 4
	SRP0110		Heat and Matter	2 - 3 1 - 4
	SRP0111		Chemical Changes to Matter - Part 1	1 - 2 1 - 4
	SRP0112		Chemical Changes to Matter - Part 2	2 - 3 1 - 5
	SRP0113		Density and Mass	1 - 2 1 - 4
	SRP0114		Mixtures of Matter - Part 1	1 - 2 1 - 4
	SRP0115		Mixtures of Matter - Part 2	1 - 4 1 - 4

Lessons in the Physical Sciences (Physics & Chemistry) - *continued*

Unit #	Ref. #		"Matter" <i>continued</i>	Developed for Grade:	Appropriate for Grade:
<i>cont'd</i>	SRP0116		Solutions and Suspensions	2 - 3	1 - 4
40	SRP0260		Combining Solids and Liquids - Free Experimentation	1 - 3	1 - 4
	SRP0282		Changing States of Matter in Food	2 - 3	2 - 7
	SRP0283		Conduction, Insulation and Convection	2 - 3	2 - 7
	SRP0284		Heat and Rates of Reaction	2 - 3	2 - 7
Unit #	Ref. #		"Physics Ideas"		
41	SRP0128	1	Measurement in Science	6 - 7	4 - 7
	SRP0129	2	Forces of Nature	6 - 7	6 - 7
	SRP0130	3	Structures - Directing Force	6 - 7	3 - 7
	SRP0131	4	Modifying Forces	6 - 7	5 - 7
	SRP0132	5	Gyroscopes	6 - 7	3 - 7
	SRP0133	6	Electromagnetism - Invisible Forces	6 - 7	6 - 7
Unit #	Ref. #		"Plastics"		
42	SRP0117	1	Field Trip - Vancouver Landfill	4 - 6	1 - 7
	SRP0118	2	Introduction to the Scientific Method - Part 1	4 - 6	3 - 7
	SRP0119	3	Introduction to the Scientific Method - Part 2	4 - 6	3 - 7
	SRP0120	4	What is Plastic?	4 - 6	1 - 7
	SRP0121	5	Bioplastic	4 - 6	1 - 7
Unit #	Ref. #		"Science of Cooking"		
43	SRP0224		Science of Bread and Butter	K - 1	K - 7
Unit #	Ref. #		"Structures"		
44	SRP0122	1	Structures in Your Neighbourhood	3 - 4	3 - 7
	SRP0123	2	Fascinating Fasteners	3 - 4	3 - 7
	SRP0124	3	Domes and Towers	3 - 4	3 - 7
	SRP0125	4	Building Bridges - Part 1	3 - 4	3 - 7
	SRP0126	5	Building Bridges - Part 2	3 - 4	3 - 7
	SRP0127	6	Structures Wrap Up	3 - 4	3 - 7
	SRP0242	1	Structures and Loads	K - 3	K - 7
	SRP0285	2	Building Sturdy Shapes	2 - 3	2 - 7
	SRP0286	3	Bridge Across Two Chairs Building Challenge	2 - 3	2 - 7
	SRP0287	4	Big Build	2 - 3	2 - 7

Earth Science Lessons

Unit #	Ref. #		Developed for Grade:	Appropriate for Grade:	
		"Climate Change"			
45	SRP0172	1	Greenhouse Effect: Pop Bottle Experiment	5 - 7	5 - 7
	SRP0173	2	Greenhouse Effect: A Computer Simulation	5 - 7	4 - 7
	SRP0174	3	Earth Energy Budget Pre-lab	5 - 7	4 - 7
	SRP0175	4	Earth Energy Budget Lab	5 - 7	4 - 7
	SRP0176	5	Dirty Decomposers	5 - 7	4 - 7
	SRP0177	6	Carbon Cycle	5 - 7	4 - 7
	SRP0178	7	Glacier Dynamics	5 - 7	4 - 7
		"The Earth Around Us: Air, Water & Soil"			
		<i>(*worksheets include French Immersion content)</i>			
46	SRP0160	1	Introductory Activity - Thinking Like a Scientist	2	1 - 7
	SRP0161	2	Water Cycle	2	1 - 7
	SRP0162	3	Weathering	2	1 - 7
	SRP0163	4	Erosion	2	1 - 7
	SRP0164	5	What is Soil?	2	1 - 7
	SRP0165	6	Worm Composting	2	1 - 7
	SRP0166	7	Can Worms See?	2	1 - 7
	SRP0191	1	The Scientific Method	2	1 - 7
	SRP0192	2	What is Air?	1 - 2	1 - 7
	SRP0193	3	*Air Cannon	1 - 2	1 - 7
	SRP0194	4	*States of Water	1 - 2	1 - 7
	SRP0195	5	*What Happens to Water Before We Use It?	1 - 2	1 - 7
	SRP0268		Extension - Tracking Water Consumption	4 - 5	1 - 7
	SRP0240		Soil Analysis	K - 3	K - 7
	SRP0261		Soil Composition and Erosion - Free Experimentation	1 - 3	K - 4
		"Fossils"			
47	SRP0327	1	Data versus Inference	5 - 7	5 - 7
	SRP0328	2	Stanley Park Field Trip	5 - 7	5 - 7
	SRP0329	3	Intro to Rocks and Minerals	5 - 7	5 - 7
	SRP0330	4	What is a Fossil?	5 - 7	5 - 7
	SRP0331	5	Walk Through Time	5 - 7	5 - 7
	SRP0332	6	Decay Lab Part 1	5 - 7	5 - 7
	SRP0333	7	Decay Lab Part 2	5 - 7	5 - 7
	SRP0334	8	Making Fossils	5 - 7	5 - 7

Earth Science Lessons - *continued*

Developed for Grade: Appropriate for Grade:

Unit #	Ref. #			Developed for Grade:	Appropriate for Grade:
"Fossils & the Changing Earth"					
48	SRP0379	1	How Science Works	6-7	5-7
	SRP0380	2	Intro to Rocks and Minerals	6-7	5-7
	SRP0381	3	The Earth Recycles!	6-7	5-7
	SRP0382	4	Deep Time	6-7	5-7
	SRP0383	5	Decomposition Lab Part 1	6-7	5-7
	SRP0384	6	Making Fossils	6-7	5-7
	SRP0385	7	Decomposition Lab Part 2	6-7	5-7
	SRP0386	8	Intertidal Field Trip	6-7	5-7
"Geology and Plate Tectonics"					
49	SRP0244	1	Describing Rocks and Minerals	6 - 7	3 - 7
	SRP0245	2	Rock Families	6 - 7	3 - 7
	SRP0246	3	Making Rocks - Exploring the Rock Cycle	6 - 7	2 - 7
	SRP0247	4	Field Trip to Pacific Museum of the Earth	6 - 7	4 - 7
	SRP0248	5	Plate Tectonics	6 - 7	2 - 7
	SRP0249	6	Earthquakes	6 - 7	4 - 7
"Marine Pollution"					
50	SRP0154	1	Modeling Estuaries	4 - 5	4 - 7
	SRP0155	2	Scientific Sampling	4 - 5	4 - 7
	SRP0156	3	Iona Wastewater Treatment Plant Field Trip	4 - 5	4 - 7
	SRP0157	4	Plastic Pollution	4 - 5	4 - 7
	SRP0158	5	Rubber Duckies and Ocean Currents	4 - 5	4 - 7
	SRP0159	6	Oil Spill Cleanup	4 - 5	4 - 7
"Renewable and Non-renewable Resources"					
51	SRP0202	1	Exploring Fish Anatomy and Commercial Fishing Gear	4 - 5	1 - 6
	SRP0203	2	Properties of Wood	4 - 5	2 - 7
	SRP0204	3	Mining in BC	4 - 5	3 - 7
	SRP0205	4	Mining & Bacterial Remediation	4 - 5	2 - 7
"Resource Extraction and the Environment"					
52	SRP0167	1	Biomes of the World (and Canada)	1 - 2	1 - 7
	SRP0168	2	Ecological Impact of Wood Extraction	4 - 5	2 - 7
	SRP0169	3	Ecological Impact of River Dams	4 - 5	4 - 7
	SRP0170	4	Ecological Impact of Cyanide Heap	4 - 5	3 - 7
	SRP0171	5	Obtaining food - The Impact of Over-fishing	4 - 5	4 - 7

Earth Science Lessons - *continued*

Unit #	Ref. #		"Water"	Developed for Grade:	Appropriate for Grade:
53	SRP0145	1	Water Cycle	4 - 5	3 - 7
	SRP0146	2	Surface Water and Groundwater	4 - 5	2 - 6
	SRP0147	3	Water Pollution	4 - 5	2 - 6
	SRP0148	4	Pond Ecosystem Field Trip	4 - 5	2 - 6
	SRP0149	5	Daphnia	4 - 5	4 - 7
			"Water Around Us"		
54	SRP0343	1	Water Flow	2 - 5	2 - 7
	SRP0344	2	Pulleys Lift Water	2 - 5	2 - 7
	SRP0345	3	Water Filters	2 - 5	K - 7
	SRP0346	4	Resistance and Buoyancy	2 - 5	3 - 7
	SRP0347	5	Fish Feeding	2 - 5	1 - 7
			"Water Quality"		
55	SRP0150	1	pH and Red Cabbage Juice	6 - 7	6 - 7
	SRP0151	2	Water Filtration	6 - 7	4 - 7
	SRP0152	3	Water Filtration with Plants	6 - 7	4 - 7
	SRP0153	4	Water Filtration Challenge	6 - 7	4 - 7
			"Weather and Seasons"		
56	SRP0196	1	Winter Season	K - 2	K - 5
	SRP0197	2	Mt. Seymour Winter Fieldtrip	K - 2	K - 7
	SRP0198	3	Rain and Rainbows	K - 2	K - 5
	SRP0199	4	Wind and Air Pressure	K - 2	K - 5
	SRP0200	5	Storms and Extreme Weather	K - 2	K - 5
	SRP0201	6	Central Park Field Trip	K - 2	K - 5
	SRP0220		Crystals	K - 1	K - 7
	SRP0223		Temperature, Wind, Frost and Dew	K - 1	K - 7

Space Science Lessons

Unit #	Ref. #		"Space"	Developed for Grade:	Appropriate for Grade:
57	SRP0139	1	The Universe As We Know It!	2 - 3	2 - 6
	SRP0140	2	Gravity - The Glue of the Universe!	2 - 3	2 - 6
	SRP0141	3	A Peek Into the Lives of Stars!	2 - 3	2 - 6
	SRP0142	4	How Hot and How Big?	2 - 3	2 - 6
	SRP0143	5	Twinkle Twinkle Little Star	2 - 3	2 - 6
	SRP0144	6	Our Star the Sun and its Friends the Planets	2 - 3	2 - 6
	SRP0259		Moon and Stars	1 - 3	1 - 7

Space Science Lessons - *continued*

Unit #	Ref. #		"Space" - <i>continued</i>	Developed for Grade:	Appropriate for Grade:
<i>cont'd</i>	SRP0303	1	Moon Regolith	6 - 7	4 - 7
58	SRP0304	2	The Sun and Seasons	6 - 7	4 - 7
	SRP0305	3	Rockets: Exploring the Solar System	6 - 7	4 - 7
	SRP0306	4	The Planets	6 - 7	4 - 7
	SRP0307	5	Dwarf Planets, Comets and Asteroids	6 - 7	4 - 7
	SRP0308	6	Spectroscopes and Light	6 - 7	4 - 7
	SRP0309	7	Black Holes	6 - 7	4 - 7