



SCIENTIST IN RESIDENCE PROGRAM			
Science Lesson Plans Developed During 2004 – 2010			
Lesson Codes	Curriculum Areas, Science Units, and Lesson Plans	Lessons Developed for Grade(s)	Lessons Appropriate for Grade(s)
	Curriculum Area: Life Science		
	Science Unit: Plants		
SRP0001	Lesson 1_Seed Structure and Seed Dispersal	3	2 - 5
SRP0002	Lesson 2_Seed Diversity	3	1 - 4
SRP0003	Lesson 3_Seed Germination	3	1 - 5
SRP0004	Lesson 4_Forest Ecosystem Field Trip	3	2 - 6
SRP0005	Lesson 5_Plant Growth Light and Shade	3	2 - 6
SRP0006	Lesson 6_Plant Parts and Their Function	3	2 - 5
SRP0007	Lesson 7_Soil Composition	3	2 - 4
SRP0008	Lesson 8_Using Plant Pigments as Natural Dyes	3	1 - 7
SRP0009	Lesson 9_Land Plants and Algae	1 and 3	1 - 6
SRP0010	Lesson 10_Plant Lifecycles	1 and 3	1 - 6
	Science Unit: Plants and Ecosystems (includes French Immersion content)		
SRP0011	Lesson 1_Let's Sort A Salad_Partageons une Salade	2 - 3	1 - 4
SRP0012	Lesson 2_Super Seeds_Super Graines	2 - 3	1 - 4
SRP0013	Lesson 3_Plants Alive! How Plants Grow and Move_Plantes Vivantes!	2 - 3	1 - 4
SRP0014	Lesson 4_Examining Ecosystems_Examinons les ecosystems	2 - 3	1 - 4
SRP0015	Lesson 5_Fun with Food Chains_Amusions-nous avec les Chaînes Alimentaires	2 - 3	1 - 7
SRP0016	Lesson 6_Fun with Plants that We Use_Des Plantes Bien Utiles	2 - 3	1 - 7
	Science Unit: Growing Plants		
SRP0017	Lesson 1_Plant Reproduction	3 - 5	2 - 7
SRP0018	Lesson 2_Designing a Germination Experiment - Part 1	3 - 5	2 - 7
SRP0019	Lesson 3_Designing a Germination Experiment - Part 2	3 - 5	2 - 7
SRP0020	Lesson 4_Microscopy Exercises	3 - 5	2 - 7
SRP0021	Lesson 5_Contrasting Landscapes -UBC Farm Field Trip	3 - 5	2 - 7
	Science Unit: Plants and Animals Through the Stages of Ecological Life		
SRP0022	Lesson 1_The Scientists' Way	6 - 7	3 - 7
SRP0023	Lesson 2_Plant and Animal Cells - Are they different?	6 - 7	3 - 7
SRP0024	Lesson 3_Organisms - Their Needs	6 - 7	4 - 7
SRP0025	Lesson 4_Populations - The Survival of the Fittest (Part 1)	6 - 7	4 - 7
SRP0026	Lesson 5_Populations - The Survival of the Fittest (Part 2)	6 - 7	4 - 7
SRP0027	Lesson 6_Ecosystems - Plants and Animals Finally Together!	6 - 7	4 - 7
	Science Unit: Plants 'n' Bugs		
SRP0028	Lesson 1_Flowers and Pollination	2	2 - 5
SRP0029	Lesson 2_Insects around Us	2	2 - 5
SRP0030	Lesson 3_Pollination Experiment	2	2 - 5
SRP0031	Lesson 4_Bugs in the Woods	2	2 - 5



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Lesson Codes	Curriculum Areas, Science Units, and Lesson Plans	Lessons Developed for Grade(s)	Lessons Appropriate for Grade(s)
	Science Unit: Temperate Forest		
SRP0032	Lesson 1_ Exploring Forest Objects	1 - 2	K - 3
SRP0033	Lesson 2_ Pacific Spirit Forest Field Trip	1 - 2	1 - 4
SRP0034	Lesson 3_ Lynn Canyon Field Trip	1 - 2	1 - 7
SRP0035	Lesson 4_ Layers of the Forest	1 - 2	K - 4
SRP0036	Lesson 5_ Layers of the Forest - Leaf Litter	1 - 2	1 - 7
SRP0037	Lesson 6_ Trees and Erosion	1 - 2	1 - 7
SRP0038	Lesson 7_ Comparing Deciduous and Evergreen Trees	1 - 2	1 - 4
SRP0039	Lesson 8_ Comparing Deciduous and Evergreen Trees - Extension	1 - 2	1 - 4
SRP0040	Lesson 9_ Tree Birthdays	1 - 2	1 - 5
SRP0041	Lesson 10_ Making a Human Tree	1 - 2	1 - 3
SRP0042	Lesson 11_ The Way a Tree Works	1 - 2	1 - 7
SRP0043	Lesson 12_ Forest Decomposition	1 - 2	1 - 4
SRP0044	Lesson 13_ Under our Feet	1 - 2	1 - 3
SRP0045	Lesson 14_ Forest Food Chains and Webs	1 - 2	1 - 5
SRP0046	Lesson 15_ Forest as a Filter	3 - 4	3 - 7
SRP0047	Lesson 16_ Dissecting Owl Pellets	3 - 4	2 - 6
SRP0048	Lesson 17_ Tree Top Canopy Field Trip	1 and 3	1 - 6
SRP0049	Lesson 18_ Pond Life	1 - 2	1 - 7
SRP0050	Lesson 19_ Making Recycled Paper	1 - 2	1 - 7
	Science Unit: Forest Ecosystem		
SRP0051	Lesson 1_ Trophic Levels	1 - 2	1 - 5
SRP0052	Lesson 2_ Producers - Focus on Trees	1 - 2	1 - 4
SRP0053	Lesson 3_ What do snails eat?	1 - 2	1 - 4
SRP0054	Lesson 4_ Decomposers - Nurse Logs	1 - 2	1 - 4
SRP0055	Lesson 5_ Decomposers - Terrarium	1 - 2	1 - 4
SRP0056	Lesson 6_ Exploring a Forest - Field Trip to Lynn Canyon	1 - 2	1 - 4
SRP0057	Forest Ecosystem Citations and Source Information for Photos		
	Science Unit: Soils, Plants, and First Nations		
SRP0058	Lesson 1_ Making a Soil Separator	1 - 3	1 - 5
SRP0059	Lesson 2_ Earthworms and Making a Wormery	1 - 3	1 - 5
SRP0060	Lesson 3_ Parts of a Flower and Pollination	1 - 3	1 - 5
SRP0061	Lesson 4_ Western Red Cedar	1 - 3	1 - 5
SRP0062	Lesson 5_ First Nations Plants and their Uses	1 - 3	1 - 5
SRP0063	Lesson 6_ Richmond Nature Park Fieldtrip	1 - 3	1 - 5
	Science Unit: Urban Biology		
SRP0064	Lesson 1_ Habitat Choice In Woodbugs	6 - 7	4 - 7
SRP0065	Lesson 2_ Can Fish Detect Odours?	6 - 7	4 - 7
	Science Unit: Discovering Life in Local Habitats		
SRP0179	Lesson 1_ Urban Life: What Lives in Our Schoolyard?	1 - 2	K - 7
SRP0180	Lesson 2_ Urban Life: What Lives in Our Local Park?	1 - 2	K - 7
SRP0181	Lesson 3_ Rainforest Life: UBC Botanical Garden Field Trip	1 - 2	K - 7
SRP0182	Lesson 4_ Forest Life: Wood Bug Study	1 - 2	K - 7
SRP0183	Lesson 5_ Beach Life: Clam Dissection	1 - 2	K - 7
SRP0184	Lesson 6_ Beach Life: Spanish Banks Field Trip	1 - 2	K - 7
	Science Unit: Ecosystem Models		
SRP0066	Lesson 1_ Measurement of Biotic and Abiotic Objects	6 - 7	4 - 7
SRP0067	Lesson 2_ Food Webs and Making Miniature Ecosystems	6 - 7	4 - 7
SRP0068	Lesson 3_ Modeling Changes to Ecosystems Part 1	6 - 7	4 - 7
SRP0069	Lesson 4_ Modeling Changes to Ecosystems Part 2	6 - 7	4 - 7
SRP0070	Lesson 5_ Stanley Park and Aquarium Field Trip	6 - 7	4 - 7
SRP0071	Lesson 6_ Models as Tools for Ecosystem Management	6 - 7	4 - 7



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Lesson Codes	Curriculum Areas, Science Units, and Lesson Plans	Lessons Developed for Grade(s)	Lessons Appropriate for Grade(s)
	Science Unit: Pacific Salmon and Mountain Pine Beetle		
SRP0072	Lesson 1_Fish Anatomy	2	2 - 7
SRP0073	Lesson 2_Fish Hazards	2	1 - 7
SRP0074	Lesson 3_Salmon Migration	2	1 - 4
SRP0075	Lesson 4_Forest Ecology	2	1 - 4
SRP0076	Lesson 5_Mountain Pine Beetle	2	1 - 7
	Science Unit: The Journey of the Pacific Salmon		
SRP0077	Lesson 1_From Stream to Sea	3	2 - 5
SRP0078	Lesson 2_The Salmon Stream & Vegetation	3	2 - 5
SRP0079	Lesson 3_The Salmon Estuary & Human Impacts	3	2 - 5
SRP0080	Lesson 4_Salmon in the Open Ocean & Fishing	3	2 - 5
SRP0081	Lesson 5_Salmon & Non-Native Species	3	2 - 5
SRP0082	Lesson 6_Salmon in the Stream & Fishing	3	2 - 5
	Science Unit: Aquatic Ecosystems		
SRP0083	Lesson 1_Exploring Marine Objects	K and 3	K - 7
SRP0084	Lesson 2_Marine Organisms	K and 3	K - 7
SRP0085	Lesson 3_Marine Field Trip to Whytecliff Park	K and 3	K - 7
SRP0086	Lesson 4_Ponds and Pond Organisms	K and 3	K - 7
SRP0087	Lesson 5_Pond Food Chains and Webs	K and 3	K - 7
SRP0088	Lesson 6_Burnaby Lake Field Trip	K and 3	K - 7
SRP0089	Lesson 7_Water Cycle and Ecosystems	K and 3	K - 7
SRP0090	Aquatic Ecosystems_VSB media bookings		
	Science Unit: Marine Critters & Communities (*worksheets include French Immersion content)		
SRP0091	*Lesson 1_Ocean Exploration	2 - 3	1 - 6
SRP0092	Lesson 2_Animals & Plants of BC's Rocky Shore - Habitat Preferences	2 - 3	1 - 6
SRP0093	*Lesson 3_Animals & Plants of BC's Rocky Shore - Species Interactions	2 - 3	1 - 6
SRP0094	Lesson 4_Rocky Shore Field Trip	2 - 3	1 - 6
SRP0095	Lesson 5_Marine Animal & Plant Adaptations	2 - 3	1 - 6
SRP0096	Lesson 6_People & the Ocean	2 - 3	1 - 6
	Science Unit: Biodiversity and Extreme Environments		
SRP0206	Lesson 1_Extreme Environments	5, 6, and 7	4 - 8
SRP0207	Lesson 2_Deep Sea Vents	5, 6, and 7	4 - 8
SRP0208	Lesson 3_Measuring Biodiversity	5, 6, and 7	4 - 8
SRP0209	Lesson 4_Intertidal Field Trip	5, 6, and 7	4 - 8
SRP0210	Lesson 5_Analyzing Intertidal and Deep Sea Vent Communities	5, 6, and 7	4 - 8
	Science Unit: Human Anatomy - How Do We Move?		
SRP0097	Lesson 1_The Skeletal System	3 - 5	3 - 7
SRP0098	Lesson 2_The Muscular System	3 - 5	3 - 7
SRP0099	Lesson 3_The Circulatory System	3 - 5	3 - 7
SRP0100	Lesson 4_The Respiratory System	3 - 5	3 - 7
SRP0101	Lesson 5_The Digestive System	3 - 5	3 - 7
SRP0102	Lesson 6_The Nervous System	3 - 5	3 - 7
SRP0103	Stereo Microscope Lesson	2	1 - 7



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	Curriculum Area: Physical Science		
	Science Unit: Force and Motion		
SRP0104	Lesson 1 Force and Motion - Part 1	1 - 2	1 - 5
SRP0105	Lesson 2 Force and Motion - Part 2	1 - 2	1 - 5
	Science Unit: Matter		
SRP0106	Lesson 1 Solids Liquids and Gases - Part 1	1 - 2	1 - 4
SRP0107	Lesson 2 Solids Liquids and Gases - Part 2	2 - 3	1 - 4
SRP0108	Lesson 3 Physical Changes to Matter	1 - 2	1 - 4
SRP0109	Lesson 4 Changing States of Matter - Making Ice Cream	2 - 3	1 - 4
SRP0110	Lesson 5 Heat and Matter	2 - 3	1 - 4
SRP0111	Lesson 6 Chemical Changes to Matter - Part 1	1 - 2	1 - 4
SRP0112	Lesson 7 Chemical Changes to Matter - Part 2	2 - 3	1 - 5
SRP0113	Lesson 8 Density and Mass	1 - 2	1 - 4
SRP0114	Lesson 9 Mixtures of Matter - Part 1	1 - 2	1 - 4
SRP0115	Lesson 10 Mixtures of Matter - Part 2	1 - 4	1 - 4
SRP0116	Lesson 11 Solutions and Suspensions	2 - 3	1 - 4
	Science Unit: Plastics		
SRP0117	Lesson 1 Field Trip - Vancouver Landfill	4 - 6	1 - 7
SRP0118	Lesson 2 Introduction to the Scientific Method - Part 1	4 - 6	3 - 7
SRP0119	Lesson 3 Introduction to the Scientific Method - Part 2	4 - 6	3 - 7
SRP0120	Lesson 4 What is Plastic?	4 - 6	1 - 7
SRP0121	Lesson 5 Bioplastic	4 - 6	1 - 7
	Science Unit: Structures		
SRP0122	Lesson 1 Structures in Your Neighbourhood	3 - 4	3 - 7
SRP0123	Lesson 2 Fascinating Fasteners	3 - 4	3 - 7
SRP0124	Lesson 3 Domes and Towers	3 - 4	3 - 7
SRP0125	Lesson 4 Building Bridges - Part 1	3 - 4	3 - 7
SRP0126	Lesson 5 Building Bridges - Part 2	3 - 4	3 - 7
SRP0127	Lesson 6 Structures Wrap Up	3 - 4	3 - 7
	Science Unit: Physics Ideas		
SRP0128	Lesson 1 Measurement in Science	6 - 7	4 - 7
SRP0129	Lesson 2 Forces of Nature	6 - 7	6 - 7
SRP0130	Lesson 3 Structures - Directing Force	6 - 7	3 - 7
SRP0131	Lesson 4 Modifying Forces	6 - 7	5 - 7
SRP0132	Lesson 5 Gyroscopes	6 - 7	3 - 7
SRP0133	Lesson 6 Electromagnetism - Invisible Forces	6 - 7	6 - 7
	Science Unit: Electricity with Applications (worksheets include French Immersion content)		
SRP0134	Lesson 1 Electromechanics	6	6 - 7
SRP0135	Lesson 2 Electric Motor	6	6 - 7
SRP0136	Lesson 3 Speaker	6	6 - 7
SRP0137	Lesson 4 Lemon Battery	6	6 - 7
SRP0138	Lesson 5 Solar Cells	6	6 - 7
	Science Unit: Simple Machines		
SRP0185	Lesson 1 Inclined Plane and Wedge	2 - 7	2 - 7
SRP0186	Lesson 2 Screw	2 - 7	2 - 7
SRP0187	Lesson 3 Lever	2 - 7	2 - 7
SRP0188	Lesson 4 Wheel and Pulley Part 1	2 - 7	2 - 7
SRP0189	Lesson 5 Pulley Part 2	2 - 7	2 - 7



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Lesson Codes	Curriculum Areas, Science Units, and Lesson Plans	Lessons Developed for Grade(s)	Lessons Appropriate for Grade(s)
	Curriculum Area: Space Science		
	Science Unit: Space		
SRP0139	Lesson 1_ The Universe As We Know It!	2 - 3	2 - 6
SRP0140	Lesson 2_ Gravity - The Glue of the Universe!	2 - 3	2 - 6
SRP0141	Lesson 3_ A Peek Into the Lives of Stars!	2 - 3	2 - 6
SRP0142	Lesson 4_ How Hot and How Big?	2 - 3	2 - 6
SRP0143	Lesson 5_ Twinkle Twinkle Little Star	2 - 3	2 - 6
SRP0144	Lesson 6_ Our Star the Sun and its Friends the Planets	2 - 3	2 - 6
	Curriculum Area: Earth Science		
	Science Unit: Water		
SRP0145	Lesson 1_ Water Cycle	4 - 5	3 - 7
SRP0146	Lesson 2_ Surface Water and Groundwater	4 - 5	2 - 6
SRP0147	Lesson 3_ Water Pollution	4 - 5	2 - 6
SRP0148	Lesson 4_ Pond Ecosystem Field Trip	4 - 5	2 - 6
SRP0149	Lesson 5_ Daphnia	4 - 5	4 - 7
	Science Unit: Water Quality		
SRP0150	Lesson 1_ pH and Red Cabbage Juice	6 - 7	6 - 7
SRP0151	Lesson 2_ Water Filtration	6 - 7	4 - 7
SRP0152	Lesson 3_ Water Filtration with Plants	6 - 7	4 - 7
SRP0153	Lesson 4_ Water Filtration Challenge	6 - 7	4 - 7
	Science Unit: Marine Pollution		
SRP0154	Lesson 1_ Modeling Estuaries	4 - 5	4 - 7
SRP0155	Lesson 2_ Scientific Sampling	4 - 5	4 - 7
SRP0156	Lesson 3_ Iona Wastewater Treatment Plant Field Trip	4 - 5	4 - 7
SRP0157	Lesson 4_ Plastic Pollution	4 - 5	4 - 7
SRP0158	Lesson 5_ Rubber Duckies and Ocean Currents	4 - 5	4 - 7
SRP0159	Lesson 6_ Oil Spill Cleanup	4 - 5	4 - 7
	Science Unit: The Earth Around Us: Air, Water & Soil (*worksheets include French Immersion content)		
SRP0160	Introductory Activity - Thinking Like a Scientist	2	1 - 7
SRP0161	Lesson 1_ Water Cycle	2	1 - 7
SRP0162	Lesson 2_ Weathering	2	1 - 7
SRP0163	Lesson 3_ Erosion	2	1 - 7
SRP0164	Lesson 4_ What is Soil?	2	1 - 7
SRP0165	Lesson 5_ Worm Composting	2	1 - 7
SRP0166	Lesson 6_ Can Worms See?	2	1 - 7
SRP0191	Lesson 7_ The Scientific Method	1 - 2	1 - 7
SRP0192	*Lesson 8_ What is Air?	1 - 2	1 - 7
SRP0193	*Lesson 9_ Air Cannon	1 - 2	1 - 7
SRP0194	*Lesson 10_ States of Water	1 - 2	1 - 7
SRP0195	*Lesson 11_ What Happens to Water Before We Use It?	1 - 2	1 - 7
	Science Unit: Resource Extraction and the Environment		
SRP0167	Lesson 1_ Biomes of the World (and Canada)	4 - 5	2 - 7
SRP0168	Lesson 2_ Ecological Impact of Wood Extraction	4 - 5	4 - 7
SRP0169	Lesson 3_ Ecological Impact of River Dams	4 - 5	3 - 7
SRP0170	Lesson 4_ Ecological Impact of Cyanide Heap	4 - 5	4 - 7
SRP0171	Lesson 5_ Obtaining food - The Impact of Over-fishing	4 - 5	2 - 5
	Science Unit: Renewable and Non-renewable Resources		
SRP0202	Lesson 1_ Exploring Fish Anatomy and Commercial Fishing Gear	4 - 5	1 - 6
SRP0203	Lesson 2_ Properties of Wood	4 - 5	2 - 7
SRP0204	Lesson 3_ Mining in BC	4 - 5	3 - 7
SRP0205	Lesson 4_ Mining & Bacterial Remediation	4 - 5	2 - 7



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Lesson Codes	Curriculum Areas, Science Units, and Lesson Plans	Lessons Developed for Grade(s)	Lessons Appropriate for Grade(s)
	Science Unit: Climate Change		
SRP0172	Lesson 1_Greenhouse Effect: Pop Bottle Experiment	5 - 7	5 - 7
SRP0173	Lesson 2_Greenhouse Effect: A Computer Simulation	5 - 7	4 - 7
SRP0174	Lesson 3_Earth Energy Budget Pre-lab	5 - 7	4 - 7
SRP0175	Lesson 4_Earth Energy Budget Lab	5 - 7	4 - 7
SRP0176	Lesson 5_Dirty Decomposers	5 - 7	4 - 7
SRP0177	Lesson 6_Carbon Cycle	5 - 7	4 - 7
SRP0178	Lesson 7_Glacier Dynamics	5 - 7	4 - 7
	Science Unit: Weather and Seasons		
SRP0196	Lesson 1_Winter Season	K, 1, and 2	K - 5
SRP0197	Lesson 2_Mt. Seymour Winter Fieldtrip	K, 1, and 2	K - 7
SRP0198	Lesson 3_Rain and Rainbows	K, 1, and 2	K - 5
SRP0199	Lesson 4_Wind and Air Pressure	K, 1, and 2	K - 5
SRP0200	Lesson 5_Storms and Extreme Weather	K, 1, and 2	K - 5
SRP0201	Lesson 6_Central Park Field Trip	K, 1, and 2	K - 5