

- Safety in Your Science Classroom
- Science, Technology, and Society
- Aboriginal Technology

# Unit 1: Diversity of Life

# Chapter 1: A Closer Look at Living Things

Starting Point Activity 1-A: It's a Live One!

### 1.1 Living Things

At Home Activity 1-B: Diversity in British Columbia Conduct an Investigation 1-C: Get Growing

#### 1.2 A Cell: The Basic Unit of Life

Find Out Activity 1-D: Kitchen Cells

### 1.3 Tools of Biology

Find Out Activity 1-E: Look at the Big Picture
Think & Link Investigation 1-F: Take a Closer Look
Conduct an Investigation 1-G: Zoom In: Using a
Microscope

Chapter 1 At a Glance Chapter 1 Review

## ✓ Chapter 2: Living Things and Their Environment

Starting Point Activity 2-A: Survivors!

#### 2.1 Climates and Biomes

Think & Link Investigation 2-B: British Columbia Climates

Find Out Activity 2-C: People in Biomes Find Out Activity 2-D: Build a Biome

### 2.2 Adaptations

Find Out Activity 2-E: Picky Eaters Find Out Activity 2-F: Animal Voices

Problem-Solving Investigation 2-G: Camouflage Creature

Chapter 2 At a Glance Chapter 2 Review

# Chapter 3: Classifying Living Things

Starting Point Activity 3-A: Sort It Out

## 3.1 The Kingdoms of Life

Conduct an Investigation 3-B: Protist Prowl Find Out Activity 3-C: Why Is a Fungi Not a Plant? Find Out Activity 3-D: Animal Collage Find Out Activity 3-E: Invertebrate I.D. Conduct an Investigation 3-F: The Bread Garden

#### 3.2 Grouping Living Things

Find Out Activity 3-G: Key It Out Conduct an Investigation 3-H: What Amphibian Is That?

Find Out Activity 3-I: Who Am I?

Chapter 3 At a Glance

Chapter 3 Review

Unit 1 Ask an Elder

Unit 1 Ask a Biologist

Unit 1 Project

# **Unit 2: Electricity**

## Chapter 4: Electric Charges

Starting Point Activity 4-A: Balloon Buddies

## **4.1 Explaining Electricity**

Find Out Activity 4-B: Make an Atomic Model

## **4.2 Static Electricity**

Conduct an Investigation 4-C: Get Ready, Get Set, Charge!

Find Out Activity 4-D: Make a Pepper Copier At Home Activity 4-E: How Shocked Can You Get?

### 4.3 Current Electricity

Conduct an Investigation 4-F: Lighten Up! Think & Link Investigation 4-G: Foiled Again! Find Out Investigation 4-H: Electric Lemon

Chapter 4 At a Glance Chapter 4 Review

#### Chapter 5: Electricity at Work

Starting Point Activity 5-A: See the Light!

## **5.1 Series Circuits**

Find Out Activity 5-B: Keep It Short At Home Activity 5-C: It's the Only Way to Go Conduct an Investigation 5-D: The Series Electrical Circuit

## **5.2 Parallel Circuits**

Find Out Activity 5-E: Current in Parallel and Series Circuits

Conduct an Investigation 5-F: On Parallel Tracks Problem Solving Investigation 5-G: Build a Complex Electrical Circuit

### **5.3 Transforming Electrical Energy**

Find Out Activity 5-H: What's the Big Attraction?

Chapter 5 At a Glance Chapter 5 Review



### Chapter 6: Power To You

Starting Point Activity 6-A: Electric Lunch

#### **6.1 Generating Electricity**

Find Out Activity 6-B: Electricity Map Find Out Activity 6-C: What's Your Source? Conduct an Investigation 6-D: Hydro-Electric Generator

#### 6.2 Electricity Ahead

Find Out Activity 6-E: Catch Some Rays Problem-Solving Investigation 6-F: Production Teams

#### 6.3 Bringing it Home

At Home Activity 6-G: Watts Up?
Think & Link Investigation 6-H: Consuming and
Conserving
Find Out Activity 6-I: Check Your Fuse

At Home Activity 6-J: Are You Ready?

Unit 2 Ask an Elder Unit 2 Ask an Electrician Unit 2 Project

# **Unit 3: Exploring Extreme Environments**

#### Chapter 7: A Challenge to Explorers

Starting Point Activity 7-A: Explore Your Home Environment

#### 7.1 What Are Extreme Environments?

Find Out Activity 7-B: Make an Extreme Environment At Home Activity 7-C: Eating Like an Astronaut

## 7.2 Observing the Sky

Find Out Activity 7-D: A Clearer View Conduct an Investigation 7-E: Gravity and Orbits Conduct an Investigation 7-F: Profile the Planets

## 7.3 Leaving Planet Earth

Think & Link Investigation 7-G: Design a Space Technology Timeline Find Out Activity 7-H: Floating in Space Find Out Activity 7-I: Working in a Spacesuit

## 7.4 Exploring New Frontiers

Think & Link Investigation 7-J: Space Report Problem-Solving Investigation 7-K: New, Improved Space Exploration Technology

Chapter 7 At a Glance Chapter 7 Review

## Chapter 8 Technologies for Unknown Worlds Starting Point Activity 8-A: Robot in a Rabbit Hole

### 8.1 Rovers and Robots

Find Out Activity 8-B: Mission to Planet X Problem-Solving Investigation 8-C: Build a Space Arm

#### **8.2 Satellites and Submarines**

Find Out Activity 8-D: Communicating with Mars Think & Link Investigation 8-E: Satellites in Your Life Find Out Activity 8-F: A Simple Submersible

#### 8.3 Canadian Technology

Design Your Own Investigation 8-G: Extreme Board Game

Find Out Activity 8-H: Local Extremes

#### 8.4 Putting Technology to the Test

Problem-Solving Investigation 8-1: Suited for Space Find Out Activity 8-J: Slinky Space Suit Design Think & Link Investigation 8-K: Costs and Benefits

Chapter 8 At a Glance Chapter 8 Review

Unit 3 Ask an Elder Unit 3 Ask an Astronaut Unit 3 Project

**SkillPower 1: Using Graphic Organizers** 

SkillPower 2: Care and Use of the Microscope

**SkillPower 3: Metric Conversion and Measurement** 

SkillPower 4: Organizing and Communicating Scientific Data

**SkillPower 5: Designing and Conducting Experiments** 

**SkillPower 6: Technological Problem Solving** 



