UNIT 3 PHYSICS

3.1 How is electrical energy part of your world?			
	Activity		Date
	Handout: Key Terms		
	Textbook: Read pages 184-189		
	Handout: Power Failure!		
	Video: Farm Family Life without Electricity		
	Textbook: Read pages 190-191		
	Textbook: page 191 answer this question in your notebook: Describe three ways that you have depended on electrical energy since you woke up this morning.		
	Handout: Electrical Energy Detective		
	Video: Kinetic and Potential Energy		
	Video: Types of Energy		
	Handout: Types of energy		
	Video: Amazing energy facts to blow your mind		
	Textbook: Read pages 192-193		
	Video: How hydroelectricity works		
	Handout: Charge it		
	Textbook: Read pages 194-197		
	Handout: What Are the Properties of an Ideal Energy Source		
	Textbook: page 198 People Power		
	Handout: Alternative Sources		
3.2 How do electrical charges behave?			
	Textbook: Read pages 202-203		
	Handout: Recalling Atoms and Charge		
	Textbook: Read pages 204-205		
	Handout: Lightning Rock of the Sumas First Nation		
	Video: What is static electricity?		
	Handout: Charge the Tape		
	Textbook: Read pages 206-207		
	Handout: Applying Properties of Electrical Charges		
	Video: 9 Awesome science tricks using static electricity		
	Handout: Repulsion Between Two Charged Objects		
	Handout: Behaviour of Charged Objects		
	Choose ONE:	Textbook: page 208 Dig Deeper	
		Handout: The Great Race	
3.3 How do charges flow through the components of a circuit?			
	Textbook: Read pages 214-216		
	Handout: Battle of the Batteries		
	Handout: Separating Charges in a Cell		
	Textbook: Read pages 217-219		
	Handout: Effects of Voltage and Current on the Human Body		
	Textbook: Read pages 220-223		
	Handout: Current Flow in a Closed Circuit		
	Textbook: Read pages 224		
	Choose ONE:	Textbook: page 225 Dig Deeper	
		Textbook: page 226 Focus on Physics	
	Hands On Activity: Pick up the simple circuit kit from your teacher and complete the activities		

3.4 How are circuits used in practical applications?			
	Activity		Date
	Video: Practical Electricity		
	Video: Voltage Potential		
	Video: Simple Circuit		
	Video: Battery Energy and Power		
	Web Activity: Battery Resistor Circuit		
	Video: Voltage		
	Video: What is a resistor?		
	Video: Series and Parallel Circuits		
	Web Activity: Series and Parallel Circuits		
	Video: AC vs DC		
	Web Activity: AC vs DC		
	Textbook: page 242 Dig Deeper		
	Textbook: Read pages 234-235		
	Handout: Comparing Current and Resistance		
	Textbook: Read pages 236-238		
	Textbook: Read pages 238-241		
	Video: Volts, Ohms & Amps		
	Video: What is an amp?		
	Video: Ohm's Law		
	Web Activity: Ohm's Law		
	Handout: Using Ohm's Law		
	Handout: Ohm's Law Practice Problems		
	Handout: Ohm's Law More Practice Problems		
	Video: Resistors		
	Video: Does volts or amps kill you?		
	Hands On Activity: Pick up the snap circuit kit from your teacher and complete the activity		
3.5 How can electrical energy be generated and used sustainably?			
	Textbook: Read pages 250-251		
	Handout: Toaster Versus Washing Machine		
	Textbook: Read pages 251-252		
	Handout: Personal Use of Electrical Energy		
	Textbook: Read pages 254-255		
	Handout: Comparing Lighting Options		
	Textbook: Read pages 256		
	Handout: Fight the Phantom!		
	Handout: Comparing Energy Sources		
	Textbook: Read pages 257-259		
	Handout: Map it!		
	Textbook: Read pages 260-261		
	Choose ONE:	Handout: Voicing Your Concerns	
		Handout: Connecting with First Peoples Principles	
	Choose ONE:	Handout: Create a Sustainable Energy Plan for Your School	
		Handout: Energy Source Scenarios	
		Handout: A Source of Electrical Energy for Riverside	
Unit Assessment			
	Handout: How can you "green" the electrical plan of a home?		