

Academic Standards for Science and Technology
Investigating Electricity/Electric 2

<i>Lesson/Chapter Objectives</i>	<i>Academic Standards</i>	<i>Grade Level</i>	<i>Activity in meeting the objective</i>
Chapter One			
Getting it together		7	Putting together materials for two electric activities
Investigating OHMs Law		7	Electrical analogy between electricity flow and squirt bottle
The electric detective most important tool		7	Using a volt-Ohm meter
To flow or not to flow		7	Use of voltmeter to decide if something is an insulator or a conductor
Chapter Two			
Decoding circuit diagrams	3.4.7 B: Explain the parts and functions of an electrical circuit	7	Learn to read a circuit
Case of the series circuit		7	Build a circuit and measure voltages
Case of the parallel circuit	3.4.7 B: Explain the parts and functions of an electrical circuit	7	Build a parallel circuit and take measurement with a volt-Ohm meter
Chapter Three			
Circuit sense	3.4.7 B: Explain the parts and functions of an electrical circuit	7	
The off and on case	3.4.7 B: Explain the parts and functions of an electrical circuit	7	Build a temporary switch and use it to communicate the Morse-code
The case of switching circuit	3.4.7 B: Explain the parts and functions of an electrical circuit	7	Build a three way switch
Stronger connections		7	Solder connections and compare- made by twisting two wires together
Rocket launcher		7	Build a rocket launcher for your school or aerospace club
Stop the crime		7	Build a burglar alarm