

Electric Excitement – Wired for Power	
Level 3 – Grade 8 - 9	
Project 2061 Benchmarks (Grade 6 - 8)	
The Nature of Science	
Activity	Scientific Inquiry
1 – 13	Scientists differ greatly in what phenomena they study and how they go about their work. Although there is no fixed set of steps that all scientists follow, scientific investigations usually involve the collection of relevant evidence, the use of logical reasoning, and the application of imagination in devising hypotheses and explanations to make sense of the collected evidence.
The Designed World	
	Energy Sources and Use
8 – 13	Energy can change from one form to another, although in the process some energy is always converted to heat. Some systems transform energy with less loss of heat than others.

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NH Science Frameworks (Grade K – 6)	
Science as Inquiry	
Activity	1a. Students will demonstrate an increasing understanding of how the scientific enterprise operates
1 – 13	Solve problems using a variety of strategies
8 – 13	Construct explanations, including the development of simple models, for observations made
1 – 13	Make hypotheses and design simple experiments to test hypotheses made
Science, Technology, and Society	
	2d. Students will demonstrate an increasing ability to understand how technology is used to synthesize new products.
1	Construct simple projects from readily available materials found at home
1	Choose appropriate common materials for mechanical construction of simple models
1	Make safe electrical connections with various electrical components
1	Create and/or reassemble technological models and identify how they work
Physical Science	
	5c. Students will demonstrate an increasing ability to understand the relationships among different types and forms of energy
8 – 13	Observe and describe how one form of energy may be transformed into another
9 – 13	Build or design a device to demonstrate energy transfer and apply the knowledge gained to how energy transfer impacts on the operation of devices found in the home, e.g. home heating systems, refrigerators