Electrical Circuits

Alignment to

New York State *Learning Standards for Mathematics, Science, and Technology*

Elementary Level Science Core Curriculum

Standard 1 - Analysis, Inquiry, and Design

Scientific Inquiry

Key Idea 1	Key Idea 2	Key Idea 3
The central purpose of scientific inquiry is to develop explanations of natural phenomena in a continuing, creative process.	**Beyond the use of reasoning and consensus, scientific inquiry involves the testing of proposed explanations involving the use of conventional techniques and procedures and usually requiring considerable ingenuity**	**The observations made while testing proposed explanations, when analyzed using conventional and invented methods, provide new insights into phenomena.**
Major Understandings:	**Major Understandings:**	**Major Understandings:**
S1.1 Ask "why" questions in attempts to seek greater understanding concerning objects and events they have observed and heard about.	S2.1 Develop written plans for exploring phenomena or for evaluating explanations guided by questions or proposed explanations they have helped formulate.	S3.1 Organize observations and measurements of objects and events through classification and the preparation of simple charts and tables.
S1.2 Objects have properties that can be observed, described, and / or measured: length, width, volume, size, shape, mass or weight, temperature, texture, flexibility, reflectiveness of light.	S2.2 Share their research plans with others and revise them based on their suggestions.	S3.2 Interpret organized observations and measurements, recognizing simple patterns, sequences, and relationships.
S1.3 The material(s) an object is made up of determine some specific properties of the object (sink / float, conductivity, magnetism). Properties can be observed or measured with tools such as hand lenses, metric rulers, thermometers, balances, magnets, circuit testers, and graduated cylinders.	S2.3 Carry out their plans for exploring phenomena through direct observation and through the use of simple instruments that permit measurement of quantities, such as length, mass, volume, temperature, and time.	S3.3 Share their findings with others and actively seek their interpre
		S3.4 Adjust their explanations and understandings of objects and events based on their findings and new ideas.