

# Energy Safe Kids Correlations

## Ohio Academic Standards in Science, Technology, Language Arts – 4<sup>th</sup> Grade

### Science

**Grade Band Theme:** Interconnections within Systems

#### **Science Inquiry and Application**

During the years of pre K–4, all students must become proficient in the use of the following scientific processes, with appropriate laboratory safety techniques, to construct their knowledge and understanding in all science content areas:

- observe and ask questions about the natural environment;
- communicate about observations, investigations and explanations; and
- review and ask questions about the observations and explanations of others.

### Strands

Strand connections: Heat and electrical energy are forms of energy that can be transferred from one location to another. Matter has properties that allow the transfer of heat and electrical energy. Heating and cooling affect the weathering of earth's surface and earth's past environments. The processes that shape the earth's surface and the fossil evidence found can help decode the earth's history.

#### Physical Science (PS) TOPIC – Electricity, Heat and Matter

**Content Statement** – The total amount of matter is conserved when it undergoes a change.

**Content Elaboration** – Some properties of objects may stay the same even when other properties change.

#### Life Science (LS) TOPIC – Earth's Living History

**Content Statement:** Fossils can be compared to one another and to present-day organisms according to their similarities and differences.

**Content Elaboration:** Fossils can be compared to one another and to present-day organisms according to their similarities and differences.

### Participating in the Vectren Create-A-Story Contest?

The following standards in  
Technology and English Language Arts apply.

### Technology

#### **ISTE Standard : Communication and Collaboration**

Students use digital media and environments to communicate and work collaboratively, including at a distance, to support individual learning and contribute to the learning of others.

- a. Interact, collaborate and publish with peers, experts or others employing a variety of digital environments and media.
- b. Communicate information and ideas effectively to multiple audiences using a variety of media and formats.
- c. Contribute to project teams to produce original works or solve problems.

### English Language Arts

#### Writing Standards K–5

Write informative/explanatory texts to examine a topic and convey ideas and information clearly.

- a. Introduce a topic clearly and group related information in paragraphs and sections; include formatting (e.g., headings), illustrations and multimedia when useful to aiding comprehension.
- b. Develop the topic with facts, definitions, concrete details, quotations, or other information and examples related to the topic.
- c. Link ideas within categories of information using words and phrases (e.g., *another, for example, also, because*).
- d. Use precise language and domain-specific vocabulary to inform about or explain the topic.
- e. Provide a concluding statement or section related to the information or explanation presented.