

Appendix 1: Common Core Standards, State Standards

CCSS.ELA-Literacy.RST.9-10.3 Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks, attending to special cases or exceptions defined in the text. Students will research and explain the step by step process that goes into transferring energy from one source to another.

CCSS.ELA-Literacy.RST.9-10.5 Analyze the structure of the relationships among concepts in a text, including relationships among key terms. Students will have to be able to describe relationships between the following: *force, friction, energy,*

CCSS.ELA-Literacy.RST.9-10.7 Translate quantitative or technical information expressed in words in a text into visual form (e.g., a table or chart) and translate information expressed visually or mathematically (e.g., in an equation) into words. Students will have to use their knowledge of their energy topic to create a visual using Adobe Illustrator and 3d Studio Max. Students will also have to explain their energy visual aid using a PowerPoint presentation.

The Energy unit will cover Scientific Visualization units of: V201.01 Advanced Presentation Techniques, V203.04 Demonstrate Presentation Techniques, V204.01 Advanced Modeling, V204.02 Animation, and V205.06 Simple Machine.