6th Grade Gifted Science

Rockford Public Schools - 6th Grade Gifted Science Power Standards

At the end of the school year, students will be able to...

INQUIRY

Scientific Inquiry

_____ *Construct charts, graphs and visualizations to display data.

Technological Design.

_____ Build and test a prototype using available materials.

Introduction to Science

_____ Describe the process a scientist uses in conducting the scientific method (including formulating a hypothesis; controlling variables; collecting, recording and analyzing data; and interpreting results).

CONTENT

Earth's Internal Processes

_____ Analyze the processes that take place inside the earth and their effects on the Earth's surface.

Rocks and Minerals

_____ Compare and contrast types of rocks and minerals including their composition and process by which they are formed.

Oceans

_____ Describe the topographic features, life forms and composition of the ocean and the effect the ocean has on the hydrologic cycle.

Weather and Climate

_____ Describe the factors that affect weather and how meteorologists use instruments and technology to predict weather patterns.

Energy and the Environment

_____ Compare and contrast energy sources and how to preserve the Earth's resources.

Astronomy

_____ Describe the objects in the solar system and how humans have explored space.

CONNECTIONS

Science Practices

_____ Recognize that the scientific community has certain conventions about units of measurement, rules for naming substances and ways to present data.

S/T/S (Science, Technology and Society)

_____ Identify scientific careers and their use of technological knowledge and skills.