

Wright City Science Curriculum

5th Grade

Grade	5th Grade
Unit of Study	Energy
Length of Unit	Three Weeks
Sample Essential Questions What is energy? How do we know energy is there if we can't see it?	<u>Sample Corresponding Big Ideas</u> <u>Energy is the ability to make things move or change.</u> Energy movement has effects on the surrounding area.
How can energy be transformed or transferred?	Energy moves from one object or place to another through different processes.
How does friction affect motion? How does mass affect force?	Motion decreases when friction increases. Force decreases when mass increases.

Missouri Learning Standards

Priority Standards

5.PS4.A.1. Develop a model to describe that objects can be seen only when light is reflected off them or when they produce their own light.

Unit 1 Sequence

MLS	Topic(s)	Learning Targets	Academic Vocabulary
5.PS4.A.1.	Light	I can explain the two ways objects can be seen. I can determine how we see an object if it does not create its own <u>light</u>. I can give examples of converting energy from one form to another. I can analyze electric circuits. I can determine forms of energy. I can describe how energy is used in situations.	Energy Electricity Thermal (Heat) Insulator Conductor Circuits Battery Conduction Convection Radiation Light Sound Magnetic Reflection Refraction Newtons Inclined Plane Wedge Screw Lever Wheel and Axle Pulley Motion Unbalanced Balanced

			Spring Scale Force Friction
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			Kinetic Potential Opaque Transparent Translucent Pitch Wavelength Amplitude Pitch
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MLS	Learning Activities	
	Energy Brain Dump	Must Do
	Electricity and Circuits Notes	Option L...
	Thermal Energy Notes Magnetism Notes Sounds and Light Notes	Option L... Option L... Option L...
	Friction Ramp Experiment	Option L...
	Spring Scale Activity	Option L...
	Simple Machines Activity and Notes	Option L...
	Predicting Motion Activity	Option L...

Assessments		
MLS	Description or Location	Rubric/Location

	Electrical Energy Practice	Pear Assessment
	Sound, Light, and Simple Machines Practice	Pear Assessment
	Thermal Energy and Magnets Practice	Pear Assessment
	Energy Unit Test	Pear Assessment

Additional Resources
Prefix in- Bellwork
Suffix -or and -er Bellwork
Suffix -tion Bellwork
Prefix un- Bellwork
MO Leap Block Car Design (4th Grade)
MO Leap Block Roller Coaster Energy (4th Grade)
<i>Energy Makes Things Happen</i> by Kimberly Brubaker Bradley
<i>The Magic School Bus and the Electric Field</i> by Joanna Cole

The Clever Pigs of Heatopia by Ms. Mielke

Heat Wave by Eileen Spinelli

The Magic School Bus Plays Ball: A Book About Forces by Joanna Cole

A Fort on Fourth Street: A Story About Six Simple Machines by Lois Spangler