

## ENERGY UNIT SUGGESTED TIMELINE - GRADE 3

Week #	Core Concepts
1	<p>Energy is the ability to do work</p> <p>Energy exists in different forms (thermal, mechanical, chemical, light, sound, electrical)</p>
2	<p>Forms of energy</p> <p>Energy can not be created or destroyed but may be converted from one form to another</p>
3	<p>Heat is the transfer of thermal energy from a warmer object to a colder object</p> <p>Heat is transferred by conduction</p> <p>Heat is transferred by convection</p> <p>Heat is transferred by radiation</p>
4	
5	<p>Temperature vs. Heat</p>
6	<p>Light is a form of energy</p> <p>Light travels as waves</p> <p>Light can be reflected</p> <p>Light can be refracted</p> <p>Light can be absorbed</p> <p>Color</p>
7	
8	
9	
9	<p><b>Cumulative Review:</b> Matter and Energy are neither created or destroyed</p>

## ENERGY UNIT SUGGESTED TIMELINE - GRADE 4

Week #	Core Concepts
1 review	<p>Energy is the ability to do work</p> <p>Energy exists in different forms</p> <p>Energy can not be created or destroyed but may be converted from one form to another</p>
2 review	<p>Heat is the transfer of thermal energy from a warmer object to a colder object</p> <p>Heat is transferred by conduction</p> <p>Heat is transferred by convection</p> <p>Heat is transferred by radiation</p>
3 review	<p>Light is a form of energy</p> <p>Light travels as waves</p> <p>Light can be reflected, refracted, or absorbed (color)</p>
4	<p>Sound is a form of energy that travels as waves through a medium, causing it to vibrate</p> <p>Sound travels at different speeds through different mediums</p>
5	<p>Motion is the change in position of an object and can be measured using distance, direction, and time</p> <p>Motion can be described using speed, velocity, and acceleration</p>
6	<p>An object's motion will always be the same unless acted upon by one or more forces (pushes or pulls)</p> <p><b>Cumulative Review:</b> up to Newton's Laws of Motion</p>

## ENERGY UNIT SUGGESTED TIMELINE - GRADE 5

Week #	Core Concepts
1 review	<p>Energy is the ability to do work and exists in different forms</p> <p>Energy can not be created or destroyed but may be converted from one form to another</p>
2 review	Heat is the transfer of thermal energy from a warmer object to a colder object by conduction, convection, and/or radiation
3 review	<p>Light is a form of energy that travels as waves which can be reflected, refracted, and/or absorbed</p> <p>Sound is a form of energy that travels as waves through a medium, causing it to vibrate. Sound travels at different speeds through different mediums</p>
1	Motion is the change in position of an object and can be measured using distance, direction, and time and can be described using speed, velocity, and acceleration
2	<p>An object's motion will always be the same unless acted upon by one or more forces (pushes or pulls)</p> <p>Newton's 1st Law of Motion</p>
3	Newton's 2nd Law of Motion
4	Newton's 3rd Law of Motion
5	Types of Forces: Gravity & Friction
6	<p>Energy is the ability to do work and exists in different forms</p> <p>Potential and Kinetic Energy</p>
7, 8, & 9	Simple Machines, <b>Cumulative Review:</b> up to Simple Machines