

What's Happening in STEM

October/November 2017

Grade	Student STEM Goals
Kindergarten	<p>Students will:</p> <ul style="list-style-type: none">• Conduct investigations to test if different types of mater can exist as both a solid and a liquid• Identify that temperature is the key to solids and liquids changing states
First	<p>Students will:</p> <ul style="list-style-type: none">• Collect evidence that vibrating objects create sound and that sound can make objects vibrate• Discover that sound travels in waves that are invisible to our eyes and that sound requires some form of matter to travel through
Second	<p>Students will:</p> <ul style="list-style-type: none">• Identify the internal structure of solids, liquids and gases that allows them to behave as such• Design a model of the structures of solids, liquids and gases• Classify and describe different types of matter based on their properties
Third	<p>Students will:</p> <ul style="list-style-type: none">• Investigate the relationship between balanced objects and unbalanced objects• Draw conclusions on the importance of balance• Discover that forces like friction and gravity play a role on balance• Locate the center of gravity within objects
Fourth	<p>Students will:</p> <ul style="list-style-type: none">• Examine the relationship between the speed of an object to the energy that that object holds• Develop an understanding between kinetic energy and potential energy• Determine that energy can be transferred from one object to another• Gain an understanding of Newtons Laws of Motion

Fifth

Students will:

- **Conduct investigations that help them understand that matter is made of small particles that they cannot always view**
- **Identify that air pressure/gas can be used as a force/propellant using rocket designs**
- **Identify that solid matter that is seen and held can be dissolved into smaller pieces of matter that are no longer viewable with the eye**