

Dear Parents,

We are starting our year learning about Matter and Energy in 3rd grade science. The following concepts will be covered and your child will be learning the following:

Student Expectation

- measure, test, and record physical properties of matter, including temperature, mass, magnetism, and the ability to sink or float; AND describe and classify samples of matter as solids, liquids, and gases, and demonstrate that solids have a definite shape and that liquids and gases take the shape of their container
- predict, observe, and record changes in the state of matter caused by heating or cooling
- explore and recognize that a mixture is created when two materials are combined, such as gravel and sand and metal and plastic paper clips

Key Concepts

- Matter has physical properties including temperature, mass, magnetism, and the ability to sink or float.
- We can classify matter as a solid, liquid, or gas based on its physical properties.
- Heating causes matter to change state from solid to liquid to gas. Cooling causes matter to change from gas to liquid to solid.
- We can predict, observe, and record changes in states of matter.
- Mixtures are formed when two or more materials are combined.
- The observable properties of materials may stay the same even when materials are mixed together
- Mixtures can be separated based on the properties of the individual materials.

Helpful Websites

- http://www.bbc.co.uk/bitesize/ks2/science/materials/changes_materials/read/5/
- http://www.bbc.co.uk/bitesize/ks2/science/materials/solids_liquids_gases/play/

Helpful websites and STEMscope login information can be found on the Eagle Mountain-Saginaw ISD website on the Curriculum and Instruction Science page.

We look forward to a great year!

The 3rd Grade Science Team