4th Grade Science

Name_____

Essential Outcomes and Learning Targets

Students will determine that the body has defense systems against germs. SEPTEMBER with INBs PIZZA BOXES ALL COPIES MADE	
	I know that the body uses tears, saliva, skin and blood to prevent germs.
	I know that vaccinations prevent germs.
Students will determine what objects magnets repel and attract. OCTOBER	
	I know what types of objects magnets repel.
	I know what types of objects magnets attract.
	I know that magnets have different strengths.
Students will construct simple electrical circuits from wires, bulbs, and batteries. NOVEMBER	
	I know the contact points to make a closed circuit.
	I know the difference between an open circuit and a closed circuit.
	I know the difference between series and parallel circuits.
	I know the difference between insulators and conductors.
Students will demonstrate that electricity can be used to produce a magnetic force. DECEMBER	
	I know that electricity can create a magnet.
	I know how to increase the strength of an electromagnet.
	I know how electromagnets are used in the real world.
Students will investigate energy. JANUARY	
	I know different sources of energy.
	I know how energy can be transferred.
	I know the difference between potential and kinetic energy.
Students will differentiate between states of matter. FEBRUARY BIG SCIENCE STATIONS	
	I know different ways matter can be measured.
	I know the characteristics of a solid.
	I know the characteristics of a liquid.
	I know the characteristics of a gas.
Students will understand the water cycle. MARCH	
	I know how water moves and collects on Earth.
	I know what precipitation, condensation, and evaporation means.
	I know why people should conserve water.
Students will investigate the properties of rocks and minerals. APRIL	
	I know the difference between a rock and a mineral.
	I can classify given rocks using the scratch test.

	I can classify rocks using the acid test.
Students will produce products using the engineering design process. MAY	
	I know that engineered products should help the world.
	I can collaborate with a group to create multiple solutions to an engineering problem, and select the best one.
	I can build a product within the given constraints.
	I can explain the design process.