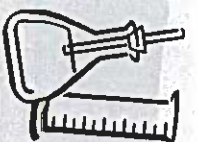


June Activities



Physical Science: This month you will focus on the different states of matter.

<p>Day 1</p> <p>Click the titles below and watch the videos about matter:</p> <ul style="list-style-type: none"> • <u>What is matter?</u> • <u>Bill Nye The Science Guy: Matter</u> <p>Complete interactive activity, click below:</p> <ul style="list-style-type: none"> • <u>Solid, Liquids and Gases</u> 	<p>Day 2</p> <p>Complete interactive activities, click below:</p> <ul style="list-style-type: none"> • <u>Properties of Matter</u> • <u>States of Matter</u> 	<p>Day 3</p> <p>Matter is all around us. Click the link below to learn about matter:</p> <ul style="list-style-type: none"> • <u>http://www.chem4kids.com/files/matter_intro.html</u> <p>Don't forget to click on the links and take the quiz.</p> <ul style="list-style-type: none"> • <u>Quiz About Matter</u>
<p>Day 4</p> <p>Find out what properties cause liquids to form layers.</p> <p>Materials: corn syrup, dishwashing liquid, water, red food coloring, corn oil, cup, small paper clip, tiny piece of Styrofoam, and a piece of rubber band.</p> <p>What to do: Pour each liquid into the cup in the order that they are listed in the materials. Observe that the liquids form layers. Gently drop in a small paper clip. Watch until it stops sinking. Next, drop in a piece of Styrofoam. Wait until it stops. Then drop in the rubber band.</p> <p>Answer the following questions in your journal. Based on your observations, which liquid has the highest density? The lowest density? How do you know? Provide an explanation.</p>	<p>Day 5</p> <p>Work with a parent/guardian to complete this activity. You will need a large container. Rub your hands together and feel the heat of your palms. Get an ice cube to hold in your hands and hold your hands over the container. Hold until all the ice cubes have melted from the heat of your hands.</p> <p>In your journal, answer the following questions:</p> <ol style="list-style-type: none"> 1. What happened to ice cubes? 2. Why did the ice cubes melt? 3. Make a prediction about what would have happened to the ice if you did not rub your hands. <p>Suggested Virtual Field Trips/Tours:</p> <ul style="list-style-type: none"> • <u>Boston Children's Museum</u> (Location: Boston, Massachusetts) • <u>U.S. Census Bureau</u> (Location: Suitland, Maryland) 	



July Activities

Physical Science and Life Science: This month you will focus on forces, motion, energy, and plants.



Day 1 Click the link below to learn about different types of energy. <u>Forms of Energy</u>	Day 2 Use what you know about the physics of motion to design a roller coaster. Draw your design in your science journal. Play this fun game to test your knowledge about gravity, motion and forces. Make sure your track is designed to build up enough force to get the riders across the track with getting stuck or crashing. For directions how to design your rollercoaster and play the game, click here: <u>Build A Rollercoaster Game</u> Virtual roller coaster simulator: https://interactives.ck12.org/simulations/physics/roller-coaster/app/index.html
Day 6 and Day 7 Click here to learn more about simple machine: <u>All About Simple Machines</u> Draw a picture in your journal showing three types of simple machines that make work easier. Explain each of your drawings.	Day 8 Look at car or a picture of a car. In your journal, name at least three simple machines found on a car and explain how each one works. <u>Clues to simple machines in cars</u>
Day 11 and Day 12 Plants are important to our lives. In your journal, draw a plant. Label and explain each part of the plant. Planting Seeds <ul style="list-style-type: none"> You will need an adult (parent/guardian) With the help of an adult (parent/guardian), you can get seeds from an apple, orange, sunflower, lemon, tangerines, dry kidney or lima beans (the kidney or lime beans must first be soaked overnight) or store-bought 	Day 13 Watch the videos learn about photosynthesis and pollination. <u>Photosynthesis</u> <u>Pollination</u> Think about what you have learned and write an explanation in your
Day 9 Answer the following questions in your science journal. If two pulling forces applied to an object are in the same direction, would the forces be added together or subtracted? Explain.	Day 10 Suggested Virtual Field Trips/Tours Boston Children's Museum (Location: Boston, Massachusetts)
Day 14 Observe the seeds you planted in the plastic cup. Explain in your journal what you see. Take the pollination quiz: <u>Pollination Quiz</u>	Day 15 Suggested Virtual Field Trips/Tours U.S. Census Bureau (Location: Suitland, Maryland)
Day 4 and 5 Simple machines make work easier for us by allowing us to push or pull over increased distances. Over the next two days, complete each interactive activity below about simple machines. Have fun learning about simple machines! <u>Simple Machines Hang Mouse</u> <u>Simple Machines Match It</u> <u>Simple Machines Letter Fall</u> <u>Simple Machine Word-O-Rama</u> <u>Simple Machine: Gold Burger To Go</u> <u>Simple Machine Quiz</u>	

<p>seed packets (only if you are able, buying store-bought seeds is not mandatory)</p> <ul style="list-style-type: none"> • 12-ounce clear plastic cups (with a hole poked in the bottom for water drainage) • plastic plate to rest the cups on • potting soil or dirt from outside your home • water with a spray bottle or cup <p>Directions</p> <ul style="list-style-type: none"> • Fill a plastic cup most of the way with potting soil and plant 4-7 beans. • Cover the seeds gently with soil. • Lightly water the soil, using the water spray bottle. • In your journal, draw your observations. • Observe the seeds you planted in the plastic cup. Explain in your journal what you see. • Water your seeds/plants based on how your soil looks. If your soil is dry, add water. 	<p>journal about the importance of photosynthesis and pollination.</p>		
<p>Day 16</p> <p>Click below to have a photosynthesis adventure!</p> <p><u>Photosynth Adventure</u></p> <p>Play a game about plants!</p> <p><u>Bob the Botanist</u></p> <p><u>Ms. Rose and Photosynthesis</u></p>	<p>Day 17</p> <p>Observe the seeds you planted in the plastic cup. Draw and explain in your journal what you see.</p>		
	<p>Day 18</p> <p>Select eight interactive activities to complete to learn more about plants. You can complete four each day.</p> <p>Click the link below.</p> <p><u>Plants</u></p> <p>After you have completed your 4 activities, write a summary in your journal explaining what you learned about plants.</p>		
	<p>Day 19</p> <p>Suggested Virtual Field Trips/Tours:</p> <p><u>National Museum of Natural History</u> (Located: Washington, DC)</p> <p><u>United States Botanic Garden</u> (Located: Washington, DC)</p>		