





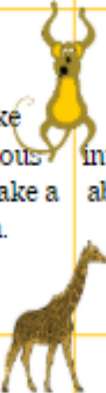













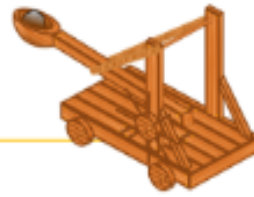














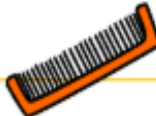









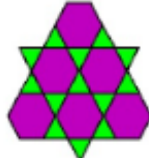





MATH MONDAY	OUTDOOR TUESDAY	SCIENCE WEDNESDAY	ENGINEERING THURSDAY	FUN FRIDAY
 Play some basketball! Measure how many baskets you make out of 10. Calculate your percentage accuracy.	 Use items you would throw away or recycle and make something useful. Name your product, set a price, and create a slogan.	 Scientist want to understand the world around us. Choose an object or something in nature. Ask 5 WHY or WHAT questions about this item.	Engineers are trained to use the knowledge of science to improve the world. Do you notice anything that can be improved? Draw a new design.	Play a family game like Monopoly that uses critical thinking and math skills. 
 Help your parents with grocery shopping. Determine the budget and select items without going over. Don't forget about tax!	 Go to the zoo and make observations about various animals' feet and ears. Make a chart for comparison.	 Search newspapers or the internet for an interesting story about science. Tell your family about it at dinner.	 Use materials to protect a water balloon from popping. Go outside and test by throwing against a wall or tree.	 Draw out your ideal future city. Make a plan for zoning (residential areas, shopping areas, parks). What laws would you enact? What new technology would exist?
 Help an adult with dinner. Can you measure the ingredients in the recipe? How would you double the recipe? Halve the recipe?	Go on a nature walk. Discuss the vegetation and wildlife you see. Notice the different habitats for different animals in your neighborhood.	 Place a small ball on top of a large ball and drop them together. Watch how energy is transferred!	 Design your own game or sport using household materials. Invite some friends to play!	Make a greeting card using 3-D popup art. 
 You have won 1 million dollars! Make a chart of how you will spend your money. Use actual values by browsing newspapers, magazines, or the internet for prices.	 Go outside and take a picture of as many different birds, insects, and mammals as possible! How many types can you find?	 Go outside. Place a Mentos candy into a Diet Coke plastic bottle. Run!	 Build a raft from aluminum foil. How many coins can it hold? Improve your design and try again.	 Let's get crafty! Make a piece of artwork using reflection and rotation symmetry.

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<p>Set-up a lemonade stand in front of your home. How much will you charge? Calculate your total profit.</p>	<p>Download a star app like Star Walk. Can you find a planet or constellations?</p> <p>★ ★ ★</p>	<p></p> <p>Create your own experiment using baking soda + vinegar.</p> <p></p>	<p>Make a catapult with household items. Test your accuracy and precision.</p> <p></p>	<p>Pick 3 objects to place in a bag. Have a friend guess the objects with only touching. You can do the same with only smelling.</p>
<p>Make a floor plan of your room on grid paper. Measure the dimensions and draw items to scale. Calculate the area. What percentage of your room is your bed?</p> <p></p>	<p></p> <p>Design and build a bird feeder. How many birds can you attract? What design improvements can you make to attract more birds?</p> <p></p>	<p>Fill a clear container 3/4 with vegetable oil. Fill the rest with water and add 10 drops food coloring. Drop in an Alka-Seltzer tablet. You're a lava lamp!</p> <p></p>	<p>Find your favorite doll or action figure and design a zip line to get them from one level to another (tree to ground, table to floor).</p> <p></p>	<p>Mix up dish soap and water. Dip a bubble hoop into the mixture and blow. What is the largest bubble you can make?</p> <p></p>
<p>Measure your heart beat for 10 seconds. Convert to beats per minute. Go out and run around and then measure again. What is the percentage increase?</p> <p></p>	<p>Plant something, such as a flower or herb, in the backyard or a small pot. Watch it grow over the summer. What does it need to grow?</p> <p></p>	<p>Predict how many pennies can be placed in a full glass of water before it overflows. Fill a glass to the rim. Add pennies one by one.</p>	<p>Design a way to keep an ice cube from melting as long as possible. Compete with a friend.</p> <p></p>	<p>Create an obstacle course outside. Calculate your average time to complete the course over a series of 5 attempts. Get a friend to try!</p>
<p>Run one lap of a track (1/4 mile) and keep the time. Calculate how long it would take to run 1/2 mile, 1 mile, and 5 miles at the same pace.</p> <p></p>	<p>Create your own ant farm! Find a diagram at m.wikihow.com/Build-an-Ant-Farm. What do you observe?</p> <p></p> <p></p>	<p>Stretch out a balloon. Pour 40 ml water into a coke bottle. Add a tsp baking soda and stir. Add lemon juice and quickly place balloon over the mouth of bottle.</p> <p></p>	<p>Make a treasure box to keep your secrets safe. Design a system that will set off an alarm or a reaction to keep prying eyes away.</p>	<p>Design a math scavenger hunt for a friend. Have them find numbers around your home that are equal to equations that you write as clues.</p>

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<p>Find 5 coupons for items you want. Calculate the savings from the coupons.</p>	<p>Create a compost pile. Chart the temperature as it decomposes. Use as fertilizer when it no longer smells and the temperature matches the surrounding dirt.</p> 	<p>Turn on the water slowly. Brush a plastic comb through your hair 10x. Slowly bring the comb close to the water.</p> 	<p>Build a tower as tall as possible using only sheets of newspaper. No tape or glue allowed!</p>	<p>Watch a TV show or documentary show about science. Science fiction doesn't count!</p> 
<p>Look up the salary for your dream job. Ask your parents how to approximate federal and state taxes. How much money do you have per month after taxes?</p> 	<p>Imagine you are going camping (or actually go camping). How will you keep food away from hungry bears?</p>  	<p>Design your own experiment! Come up with a hypothesis, design an experiment, and record the results.</p>	<p>Imagine you only have one leg. Design a prosthetic leg using household items. Test it out! How do you make it comfortable? How would it attach to your body?</p>	<p>Get a bag of M&Ms. Predict the % of red, blue, green, and brown. Open and record actual numbers. What is the probability you will get a green from the bag?</p> 
<p>You are a pirate and have to walk the plank! The plank is 5 feet long and you take 8 equal steps. How long is each step so that you don't fall off? 10 steps? 12 steps?</p> 	<p>Pick a flower. Take it apart and sketch its different components. Describe the textures and colors. Why do you think it was made this way?</p> 	<p>The tongue map theory suggests that different areas of your tongue sense different tastes. Look-up this theory. Create an experiment to prove or disprove it.</p> 	<p>Build a house made of playing cards. What configurations are the strongest? Why?</p> 	<p>Make a piece of artwork using tessellations.</p> 
<p>Measure the length of your hand. Now you have your own personal ruler! Go out and measure everything</p>  	<p>Go outside and look for rocks. Can you find different types? Research rocks local to your area and see if you can find them.</p>	<p>Drought is a common problem that farmers face. Research how rain forms and think of ways that you could increase local rain. Look up "cloud seeding."</p> 	<p>Select a manufactured item in your home and investigate how it works. Describe the item in writing and with a diagram.</p>	<p>Which 3 jobs would you like to have when you grow up? Find someone to speak to that is in one of those careers!</p> 