

## STEM and Maker At-Home Activities - Grades 3-5

Be creative! Choose an activity to do with your family.

<p style="text-align: center;"><b><u>Code.org</u></b></p> <p>Continue working through the course for your class. See help videos for in Google Classroom if you are really stuck.</p>	<p style="text-align: center;"><b><u>Paper Airplane Challenge</u></b></p> <p>Design and make 3 different paper airplanes and see which one flies the farthest.</p>	<p style="text-align: center;"><b><u>Build-It Challenge</u></b></p> <p>Using Lego's, build a container that will hold exactly 10 pens or pencils.</p>
<p style="text-align: center;"><b><u>Stop-Motion Studio</u></b></p> <p>Come up with a story. Remember it needs a beginning, middle and end. See how creative you can get with materials you have.</p>	<p style="text-align: center;"><b><u>Play a Game</u></b></p> <p>Play a board game at home with your family. Change some of the rules to make the game more challenging or easier depending on who you play with.</p>	<p style="text-align: center;"><b><u>It's A-Maze-ing!</u></b></p> <p>Explore this website:  <a href="http://www.gwydir.demon.co.uk/jo/maze/">http://www.gwydir.demon.co.uk/jo/maze/</a>            Design a maze. Give it to a family member to solve.</p>
<p style="text-align: center;"><b><u>Scratch</u></b></p> <p>Start creating at...  <a href="https://scratch.mit.edu/">https://scratch.mit.edu/</a>            Create a game that can be played by two people at the same time.</p>	<p style="text-align: center;"><b><u>Build-It Challenge</u></b></p> <p>Build a catapult that can throw a marshmallow (or similar). Do 20 launches and graph the distance. Make observations based on the graph.</p>	<p style="text-align: center;"><b><u>Build-It Challenge</u></b></p> <p>Design and build something that won't fall apart when you drop it from as high as you can reach.</p>
<p style="text-align: center;"><b><u>Build-It Challenge</u></b></p> <p><a href="https://www.youtube.com/watch?v=n-RtJOfFIZU">https://www.youtube.com/watch?v=n-RtJOfFIZU</a>            Using lego pieces or other building materials, create a car and explain why it's the coolest car!</p>	<p style="text-align: center;"><b><u>Rube Goldberg</u></b></p> <p>Research Rube Goldberg. Describe what this person did and see if you can design or create a "machine" that has 3-5 elements.</p>	<p style="text-align: center;"><b><u>Build-It Challenge</u></b></p> <p>Make a "roller-coaster" for a marble (or similar) that will keep it moving for at least 30 seconds.</p>
<p style="text-align: center;"><b><u>Cook-It!</u></b></p> <p>Look up a cooking recipe. Half or double the ingredients. With an adult, try cooking the recipe and see how it comes out.</p>	<p style="text-align: center;"><b><u>GarageBand</u></b></p> <p>Explore instruments in the GarageBand app. Use what you have learned in music and write a piece of music.</p>	<p style="text-align: center;"><b><u>Research an Engineer</u></b></p> <p>Research a type of engineer and explain what they do and why it's important.</p>
<p style="text-align: center;"><b><u>Puzzlemaker</u></b></p> <p>Solve a puzzle that you have at home. Color or draw a picture on a piece of paper. Cut it up into parts. Solve it.</p>	<p style="text-align: center;"><b><u>That's Science!</u></b></p> <p>Simulate an oil spill by placing a spoonful of cooking oil into a cup of water. Design a solution for cleaning it up.</p>	<p style="text-align: center;"><b><u>That's Science!</u></b></p> <p>Research "Carbon Neutral"            Design a city or house that be carbon neutral. Explain the benefits.</p>