

# Distance Learning @ Home

## Activities incorporating

Science, technology, engineering, art, and math

Created by: [STEAMtastic Teaching](#)





## About STEAMtastic Teaching

Hello! My name is Emily Sullivan and I am the teacher behind STEAMtastic Teaching.

I have been teaching since 2015, but I've been teaching STEAM to students in grade K-4 since 2016.

ALL of my resources have been taught within my classroom first and adjusted prior to selling them through Teachers Pay Teachers.

I am very excited to provide you with activities I do with my students. I will always encourage you to have fun with your students and while they design/build/create...provide prompting questions such as: What made you design it this way?

What would happen if...

I noticed you redesigned, what made you change your idea?

This gets your students thinking deeper about their creating/problem solving.

Most importantly, have fun and be creative!

# Activities incorporating the different components of STEAM (Grades 3-4)

Science	Technology	Engineering	Art	Math
<p>Scientists want to understand the world around us. Ask 5 questions to learn more about something in nature. Then research one of those questions more deeply.</p>	<p>Complete a coding challenge on <a href="http://MrPearse.com">Mr.Pearse.com</a></p> <p>Click on the tab "learn" then "code.org"</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 you attach it to your body?</p>	<p>Draw your ideal future city. What areas will keep citizens healthy and happy? What laws would you put in place?</p>	<p>Play some basketball! Count how many baskets you make out of 10. Now create a fraction! What does this fraction tell you?</p>
<p>Create your own experiment using baking soda and vinegar. Make a prediction BEFORE you test.</p>	<p>Complete one of the "offline" coding challenges at this website: <a href="#">Click Here</a></p>	<p>find your favorite doll or action figure. Design a zipline to help them travel from a height of at least 4 feet.</p>	<p>Make a greeting card using 3-D popup art.</p>	<p>Help your family with grocery shopping. Determine a budget and select items without going over your budget.</p>
<p>Place a small ball on top of a larger ball and drop them at the same time-watch how energy can transfer!</p>	<p>Design and build a new piece of technology. What problem does it help with?</p>	<p>Design and built a catapult. Test your accuracy and power by knocking over a tower of cups. (don't forget your labels!)</p>	<p>Make a piece of artwork using reflection and rotational symmetry</p>	<p>Help an adult with dinner. Measure the ingredients. What would you do to double the recipe?</p>
<p>Build a window greenhouse and watch your plants grow <a href="#">Click here for setup instructions</a></p>	<p>Watch one of the videos from <a href="http://MrPearse.com">Mr.Pearse.com</a> and write about how it made you feel. What does it make you think about?</p> <p>Click "video" tab then "the future"</p>	<p>Use different materials to protect a water balloon from popping. Go outside and test by dropping it or throwing it against a tree.</p>	<p>Create a new song on <a href="http://Mr.Pearse.com">Mr.Pearse.com</a></p> <p>Click on "games" tab then "Song maker"</p>	<p>Measure the length of your hand. Now you have your own personal ruler! Go out and measure 10 different items.</p>
<p>Turn on your water slowly. Brush a plastic comb through your hair 10x. Slowly bring the come close to the water. What do you think is happening?</p>	<p>What is your ideal STEAM job? Take a quiz to find out! <a href="#">Click Here</a></p>	<p>Design and build a roller coaster from paper, paper plates, and tape. How long can you keep a ping pong ball moving?</p>	<p>Go outside a design a mural out of chalk!</p>	<p>Measure your heartbeat for 10 seconds. Convert to beats per minute. Run around your house and measure again. What is your new heart rate?</p>

# Activities incorporating the different components of STEAM (Grades K-2)

Science	Technology	Engineering	Art	Math
<p>Scientists want to understand the world around us. Ask 5 questions to learn more about something in nature. Write them down.</p>	<p>Complete a coding challenge on <a href="http://Mr.Pearse.com">Mr.Pearse.com</a> Click on the tab "learn" then "code.org"</p>	<p>Design a paper airplane. Now build it and test it 5 times. Don't forget to record how it does for each test. Now try to improve your airplane using the same paper!</p>	<p>Draw your dream bedroom. Where would you put your bed? Would you have an area to play? What else would be in your room?</p>	<p>Play some jump rope. Can you count by 1s, 2s, 5s, and 10s?</p>
<p>Create your own experiment using baking soda and vinegar. Make a prediction BEFORE you test.</p>	<p>Complete one of the "offline" coding challenges at this website: <a href="#">Click Here</a></p>	<p>find your favorite doll or action figure. Design a zipline to help them travel from a height of at least 4 feet.</p>	<p>Make a greeting card and send it to someone you miss.</p>	<p>Help your family with grocery shopping. Can you find out what it's going to cost?</p>
<p>Plant a seed! Discuss what plants need to survive! Watch it grow over the next week and record your observations each day!</p>	<p>Design and build a new piece of technology. What problem does it help with?</p>	<p>Design and built a catapult. Test your accuracy and power by knocking over a tower of cups. (don't forget your labels!)</p>	<p>Make a piece of artwork using using only 2 different shapes.</p>	<p>Use a small bag of candies like M&amp;Ms, and organize them. How many ways can you organize your candy before you eat it!</p>
<p>Build a window greenhouse and watch your plants grow <a href="#">Click here for setup instructions</a></p>	<p>Watch one of the videos from <a href="http://Mr.Pearse.com">Mr.Pearse.com</a> and write about how it made you feel. What does it make you think about?  Click "video" tab then "the future"</p>	<p>Use different materials to protect a water balloon from popping. Go outside and test by dropping it or throwing it against a tree.</p>	<p>Create a new song on <a href="http://Mr.Pearse.com">Mr.Pearse.com</a>  Click on "games" tab then "Song maker"</p>	<p>Measure the length of your hand. Now you have your own personal ruler! Go out and measure 10 different items.</p>
<p>Turn on your water slowly. Brush a plastic comb through your hair 10x. Slowly bring the come close to the water. What do you think is happening?</p>	<p>What is your ideal STEAM job? Take a quiz to find out!  <a href="#">Click Here</a></p>	<p>Design and build a roller coaster from paper, paper plates, and tape. How long can you keep a ping pong ball moving?</p>	<p>Go outside a design a mural out of chalk! Have someone trace you with chalk and add details to your outline!</p>	<p>Create an obstacle course. Count how long it takes you to complete it! Can you do it faster the second time? Get a family member to try!</p>

# Credits



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