

Tyrone STEM Projects

Mrs. Smith

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Below you will find 15 different STEM activities. Choose one per week from any category to complete with a total of at least two. If you prefer, you could use choices from the last packet as well. My website has both packets available: smith110.weebly.com

Turn in a picture of each project with a few sentences explaining your project including how it worked, what materials you used, and which part of STEM (Science, Technology, Engineering or Math) it was from. You can email it to me, send it through Class Dojo, or respond in Google Classroom.

| Math Monday | Outdoor Tuesday | Science Wednesday | Engineering Thursday | Fun Friday |
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| Make a floor plan of your room and draw items to scale. What percentage of your room is your bed? | Go outside and take a picture of as many different birds, insects, and mammals as possible! How many types can you find? | Build a window greenhouse and watch your plants grow. Learn more here: bit.ly/vivifylifescience | Design and build a roller coaster from paper, paper plates, and tape. How long can you keep a ping pong ball moving? | Make a piece of artwork using reflection and rotation symmetry. |
| Measure your heart beat for 10 seconds. Convert to beats per minute. Run around and then measure again. What is the percentage increase? | Design and build a bee hotel. Learn more here: bit.ly/vivifylifescience | Turn on the water slowly. Brush a plastic comb through your hair 10x. Slowly bring the comb close to the water. What is happening? | Find your favorite doll or action figure and design a zip line to help them travel down from a height of at least 4 feet. | Create an obstacle course outside. Calculate your average time to complete the course over a series of 5 attempts. Get a friend to try! |
| Measure the length of your hand. Now you have your own personal ruler! Go out and measure everything | Create your own ant farm! Find a diagram at m.wikihow.com/Built-an-Ant-Farm . What do you observe? | The tongue map theory states that different areas of your tongue sense different tastes. Look-up this theory. Create an experiment to prove or disprove it. | 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? | What is your ideal STEM job? Take a quiz to find out! bit.ly/stemtypequiz |