STEM Lessons

Below you will find a variety of either virtual field trips with embedded activities, coding for grade levels k-8, STEM activities with materials commonly found at home, and even a website to explore and complete activities relating to space and climate. STEM is an exploratory course, so there are no grades or written work requirements. To keep up with problem solving skills taught in STEM, choose at least one of these activities each week we are away from each other. If you build something, I would love a picture or video. My email is [gunbyga@richmond.k12.ga.us](mailto:gunbyga@richmond.k12.ga.us) .

I am available for questions Monday through Friday from 8:15 until 3:15. I look forward to seeing what you do. I will compile all videos and pictures sent to me during the break and share with students during your regular STEM class. Have fun exploring. I will be right along beside you exploring as well. Mrs. Gunby

<https://tinkerlab.com/engineering-kids-rube-goldberg-machine/>

<https://frugalfun4boys.com/engineering-project-kids-build-straw-roller-coaster/>

<https://www.kidscodecs.com/pigpen-ciphers/>  
[Could you build a house out of paper?](https://mysteryscience.com/materials/mystery-5/materials-properties-engineering/262?code=NDEwMDY3MDQ&t=student)

[How many different kinds of animals are there?](https://mysteryscience.com/biodiversity/mystery-1/biodiversity-classification/174?code=NDEwMDY3MDQ&t=student)

[How can you keep a house from blowing away in a windstorm?](https://mysteryscience.com/weather/mystery-4/natural-hazards-engineering/153?code=NDEwMDY3MDQ&t=student)  
[What makes bridges so strong?](https://mysteryscience.com/forces/mystery-2/balanced-forces-engineering/43?code=NDEwMDY3MDQ&t=student)

[Where does energy come from?](https://mysteryscience.com/energy/mystery-8/renewable-energy-natural-resources/269?code=NDEwMDY3MDQ&t=student)

[How much water is in the world?](https://mysteryscience.com/earth/mystery-1/hydrosphere-the-roles-of-water/122?code=NDEwMDY3MDQ&t=student)  
[When you turn on the faucet, where does the water come from?](https://mysteryscience.com/earth/mystery-2/groundwater-as-a-natural-resource/123?code=NDEwMDY3MDQ&t=student)

<https://kids.nationalgeographic.com/>

<https://code.org/student/elementary>

<https://code.org/student/middle-high>

<https://www.edtechforkids.com/morse-code-for-kids>

<https://www.sciencebuddies.org/stem-activities/candle-seesaw>

<https://www.sciencebuddies.org/stem-activities/long-straw>

<https://www.sciencebuddies.org/stem-activities/soil-and-earthquakes>

<https://www.sciencebuddies.org/stem-activities/afterimages-illusions>

<https://climatekids.nasa.gov/>

<https://www.nasa.gov/kidsclub/index.htm>

<https://spaceplace.nasa.gov/en/search/kids/>