

Rising Third Grade Summer Program

Unit 3: “STEAM: Science, Technology, Engineering, Arts/Architecture, Mathematics”



To earn your **STEAM Star Badge**, please follow the directions in each category below.
Good luck & have fun!

READ

Choose at least 2-3 to read. Try to pick a few titles in each topic area.

- Parker Bell and the Science of Friendship* by Cynthia Platt
- Mad Scientist Academy: The Dinosaur Disaster* by Matthew McElligott
- EngiNERDS* by Jarrett Lerner
- Sydney & Simon: Full Steam Ahead!* By Paul A. Reynolds

VISIT or LISTEN

Check out these virtual field trips! What do you see? What did you learn?

- [National Museum of the United States Air Force](#)
- [Paris: A City of Lights Virtual Tour and Video](#)
- [Stanley Black & Decker Innovation Generation Video](#)
- [Tami's Tower Game \(Engineering\)](#)
- [Telephones through Time \(Invention\)](#)
- [How to Make a Harmonic](#)
- [Virtual Field Trip of Arconic's Advanced Manufacturing Hubs](#)
- Discovery Education [STEM Careers: Tiffany Nash: Art and Math](#)
- Discovery Education [Trial and Error](#)
- Discovery Education [Irrigating Using Technology](#)
- Discovery Education [Science is Elementary: How Does That Work](#)
- YouTube: [The Coolest Machine Ever!](#)
- [Tour of the Johnson Space Center](#)
- [A Day in the Life Aboard the International Space Station](#)
- [Access Mars!](#)

WRITE

Select 2-3 and type or write your response on a piece of [lined paper](#).
[Graphic Organizer \(Web\)](#)

- Design a machine. List the materials and step-by-step instructions.
- What invention do you think would make the world better? Write about the invention and what it would do.
- Write a short story about an experiment gone mad!
- Write a story about a world with no technology. What would it look like? What are the people doing?
- Write a list of 5 reasons why mathematics is important in everyday life. Provide examples!

- You are in charge of designing the next largest building on earth. What is the building going to look like? What will it be used for? What city will it be in? Pretend you are an architecture on this journey. Your written response should include as many details as you can provide! Please include a picture of your building, too!

MAKE

Pick 3-4 “Make” activities below. Take a photo or video of what you created!

- [Build a Rover Activity](#)
- [The Stroop Effect](#)
- [Building Bridges Activity](#)
- [Surface Tension Art](#)
- [Paper Hovercrafts Activity](#)
- Bake your family’s favorite recipe! Math skills are very important when baking or cooking. Take a photo of your final product and share the treat with your family!
- Do the Egg Drop Challenge! Design something to hold a raw egg so that when you drop the egg, it does not crack. You can use household materials for this activity.
- Using marshmallows and toothpicks, create a skyscraper or small city. Using construction paper or other craft items, design your own house. What rooms does it have? How does the outdoor portion look? Be creative and take a photo of your final design!

Great work! Now it’s time to EARN YOUR BADGE!

- At the end of the summer, fill out the Google Form as found on the [Haverford Summer Work Website](#)
- Follow the steps on the Form
- Congratulations, you have earned your Badge!

