

GSNETX STEM Seal of Approval

To earn the STEM center:

Do one activity from each category **OR** attend a community STEM fair **OR** attend a GSNETX STEM event **OR** attend a workshop offered by a GPS program partner

To earn the S, T, E, or M:

Do the starred activity, plus 3 additional activities in that category **OR** attend a GSNETX STEM event **OR** attend a workshop offered by a GPS program partner



Science:

- ★ Find 3 careers in science that interest you. Choose one and complete a Career Card.
- Interview a professional woman in a science field.
- Tour a science lab. Learn the purpose of 5 pieces of equipment and practice using one.
- Explore the Scientific Method. Name all of the steps and practice writing a Hypothesis.
- Try an explosive science experiment. Learn the science behind your experiment.
- Explore electricity in the world around you! Conduct an electric experiment.
- Uncover the “invisible”! Use a microscope, magnifying glass, or telescope to look at 5 things.
- Create your own science exploration activity.

Technology:

- ★ Find 3 careers in technology that interest you. Choose one and create a Career Card.
- Interview a professional woman in a technology field.
- Participate in an Hour of Code. Visit www.code.org for more information.
- Compare a phone from today to 3 others throughout history. How/why have they changed?
- Learn about 3 pieces of emerging, innovative technology. Describe the societal need they fill.
- Create your own video game. Use resources online to create and play in your own world!
- Explore technological advancements in travel. Create a timeline or design a future method of travel.
- Create your own technology exploration activity.

Engineering

- ★ Find 3 careers in engineering that interest you. Choose one and create a Career Card.
- Interview a professional woman in an engineering field.
- Investigate Civil Engineering. Design a model community with your new knowledge!
- Explore Aerospace Engineering. Create a rocket, airplane, or design your own space vehicle.
- Test out Chemical Engineering. Make your own cosmetic/beauty product using chemical engineering.
- Build up your Structural Engineering skills. Build a structure such as a chair, bridge, or skyscraper!
- Improve health as a Biomedical Engineer. Design a product to help the human body, such a new shoe, car seat, backpack, or something else entirely!
- Create your own engineering exploration activity.

Mathematics

- ★ Find 3 careers in mathematics that interest you. Choose one and create a Career Card.
- Interview a professional woman in a mathematics field.
- Explore symmetry in nature! Find examples of 5 types of symmetry in nature and choose one to replicate.
- Budget for your lifestyle! Make budget envelopes to help you manage your money.
- Discover the importance of measurements in culinary arts. Try a recipe from another country that uses the metric system of measuring. Try the same recipe again using the Imperial measuring system.
- Explore currency from 3 different countries. Practice making change for each of the currencies.
- Learn about cryptography. Make your own secret code using mathematics.
- Create your own mathematics exploration activity.

Questions? Contact programs@gsnetx.org