



GSNETX STEM Seal of Approval

To earn the Texas Instruments STEM Center Seal:

Do one activity from each category AND attend a community STEM fair OR attend an event at the STEM Center of Excellence.

To earn the Air Liquide S, State Farm T, Toyota Connected E, or M:

Do the starred activity, plus 3 additional activities at the category OR attend an event at the STEM Center of Excellence.

All STEM seal of approval patches are free, except for the M patch.



Science Seal of Approval

Find 3 careers in science that interest you. Choose one and complete a Career Card, located on the last page

- Learn the scientific method then use it to solve a problem.
- Having a journal is very important to keep track of your scientific discoveries and ideas! Grab a journal and a pencil and go for a walk around your neighborhood or a hike at your favorite park. As you walk, make observations of what you see, hear, and smell.
- Tour a science lab (at the STEM Center of Excellence or at school) and learn the purpose of 5 pieces of equipment. Once you learn the importance, practice using them!
- Interview a professional scientist! If you don't know of one, check out the If/Then Ambassador website that is full of amazing women in science. •www.ifthencollection.org

Sponsored by Air Liquide



Find 3 careers in technology that interest you. Choose one and complete a Career Card, located on the last page

- Compare a phone from today to phones from the 80's, 90's, 2000's and 2010's. Describe how they are different from each other and from the phones today. What changes were made to make using it easier?
- Research 3 new devices or technological applications. How will they help the community they are meant to serve?
- Explore technological advancements in travel. Design a new method of traveling by air, land, or water.
- Complete an hour of code. Visit www.code.com for more information.
- Interview a professional in technology! Check out the If/Then Ambassador website that is full of amazing women in science. www.ifthencollection.org



Engineering Seal of Approval

Find 3 careers in Engineering that interest you. Choose one and complete a Career Card, located on the last page

- You will explore Aeronautical/Aerospace, Biomedical, Chemical, Civil engineers, environmental, and mechanical engineers.
- Compare a car from today to cars from the 80's, 90's, 2000's and 2010's. Describe how they are different from each other and from the cars today. What changes were made to make using it easier?
- Like a biomedical engineer, design a product that can help the human body perform a normal function, like grabbing a cup.
- Use chemistry, physics, and math to make your own cosmetic/beauty products.
- Redesign and repurpose trash to help sustain and improve the natural environment.
- Design a model community you would want to live in with bridges, dams, and parks.
- Like a mechanical engineer, design a tool to help you complete a chore.
- Interview a professional Engineer! Check out the If/Then Ambassador website that is full of amazing women in science. www.ifthencollection.org

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Mathematics Seal of Approval

Find 3 careers in Mathematics that interest you. Choose one and complete a Career Card, located on the last page

- Budget for your lifestyle! Think of something special you want to save for, then make a budget to help you manage your money.
- Discover the importance of measurement when cooking or baking. Try a recipe from another country that uses the metric system and then convert the recipe using the imperial measurement system.
- Explore symmetry in nature! Photograph 5 examples from nature and recreate one using common items found around or at home.
- Explore the currency from 3 different countries. Practice converting the currency to dollars.
- Interview a professional Mathematician! Check out the If/Then Ambassador website that is full of amazing women in science. www.ifthencollection.org

Questions? Contact Program@gsnetx.org
Fill out the form here to receive your patches

STEM Career Card

Position Title: _____

Salary Range: _____

Trinaing or education Required: _____

In this career, I would: _____

I like this career because: _____

Three things I can do to prepare for the career:

1. _____
2. _____
3. _____

STEM Career Card

Position Title: _____

Salary Range: _____

Trinaing or education Required: _____

In this career, I would: _____

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Three things I can do to prepare for the career:

1. _____
2. _____
3. _____