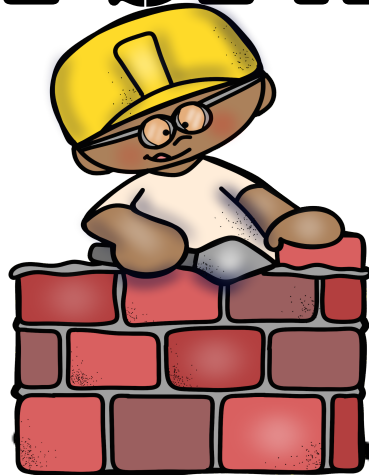




Ready to Think and Create?

MAKER SPACE TASK CARDS

“STEM SPARKS”



FREEBIE

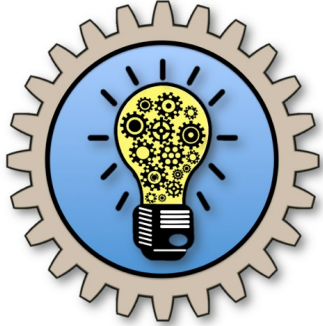
STEM Sparks Task Cards

Freebie

This packet is a sample of our STEM Sparks enrichment cards that can be used in a Maker or STEM classroom center, as a discussion launcher, or as a homework assignment. Students can write about their solution, draw their ideas, and even perhaps build a prototype. Each challenge lends itself to thinking “out of the box”, creative analysis, and unique problem solving. The students are only limited by their imaginations as they invent a creative answer to each challenge.

STEM TASK CARD

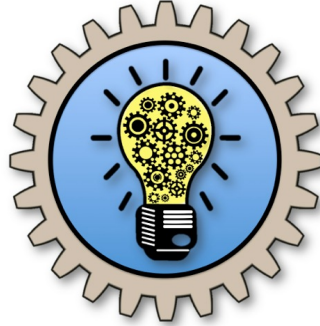
Build a structure from 20 straws and paper clips.
Can it hold weight?



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STEM TASK CARD

Build a cube from one sheet of paper, tape, and scissors



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STEM TASK CARD

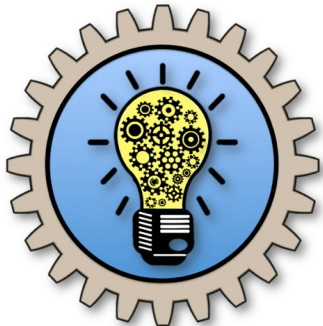
Using one sheet of paper and 5 paper clips make a paper airplane that flies as far as possible.



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STEM TASK CARD

Create a commercial for each of Newton's Laws using a theme song and props



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STEM TASK

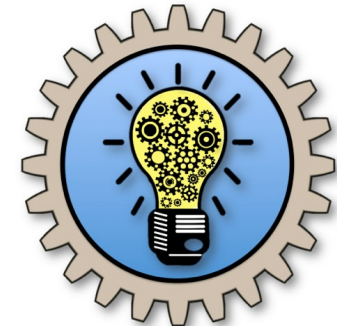
Using plastic baggies and books, design a book airlift. How many books can you airlift?



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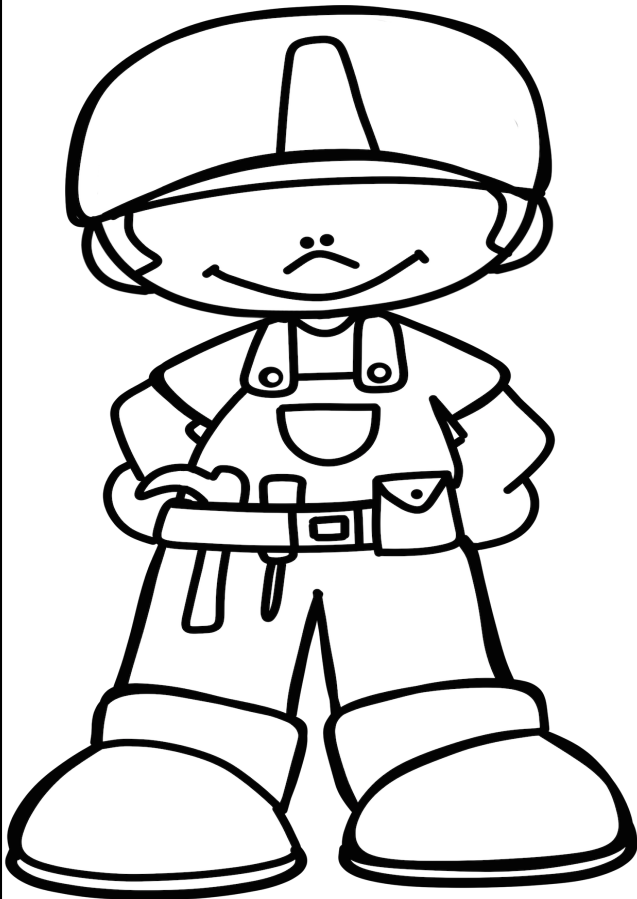
STEM TASK CARD

Design and build a gondola that is powered by a balloon to travel on a six foot string attached to two chairs.



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Sharing Stem Sparks



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Inquiry Questions

What are some different things you could try?

What would happen if you...?

What might you try instead?

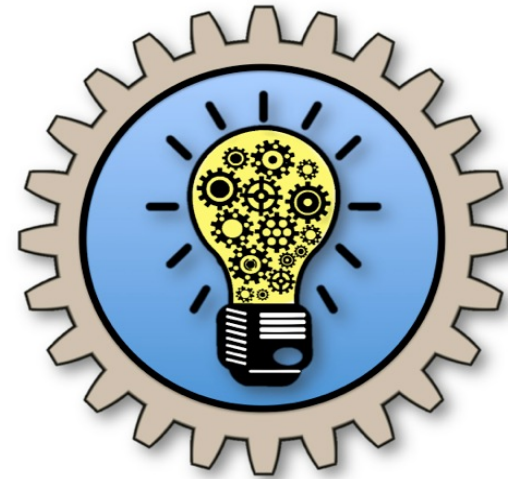
What will you do next?

Tell me about your materials?

Tell me what happened?

What does this make you think of?

What will you do next after you finish this part?



Want More Maker Space Task Cards?

**We have several sets of
STEM Sparks Maker Space Task Cards
available for you!**

Autumn Maker Space Task Cards

<https://www.teacherspayteachers.com/Product/Autumn-Maker-Space-Task-Cards-STEM-Sparks-2845055>

Maker Space Task Cards

<https://www.teacherspayteachers.com/Product/Maker-Space-Task-Cards-1633915>

More Maker Space Task Cards

<https://www.teacherspayteachers.com/Product/Maker-Space-Task-Cards-MORE-STEM-Sparks-2406056>

Set Four – Maker Space Task Cards

<https://www.teacherspayteachers.com/Product/Maker-Space-Task-Cards-Set-4-of-STEM-Sparks-2792083>

Earth Day Maker Space Task Cards

<https://www.teacherspayteachers.com/Product/Earth-Day-Maker-Space-Task-Cards-STEM-Sparks-2465250>

Next Generation Science Standards (NGSS)

Grades K- 2: ENGINEERING DESIGN

K-2-ETS1-1: Ask questions, make observations, and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool

K-2-ETS1-2: Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem

Grades 3-5: ENGINEERING DESIGN

3-5--ETS1-1: Define a simple design problem reflecting a need or a want that included specified criteria for success and constraints on materials, time, or cost.

3-5--ETS1-2: Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.

3-5--ETS1-3: Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved.

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getcaughtengineering@gmail.com

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A Facebook page: <https://www.facebook.com/GetCaughtEngineering>

A Pinterest page: <https://www.pinterest.com/getcaughtenging/>



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<https://www.teacherspayteachers.com/Store/Get-Caught-Engineering-Stem-For-Kids>

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More STEM Ideas For You

Would you like to try some other STEM lessons?

We have integrated engineering lessons into many different units. These are available as discounted bundles and as individual lessons.

Nursery Rhymes

<http://www.teacherspayteachers.com/Product/Engineering-Mother-Goose-Nursery-Rhymes-and-STEM-1452862>

History

<http://www.teacherspayteachers.com/Product/A-Bundle-of-Ancient-History-STEM-and-Engineering-Projects-1171845>

Super Heroes

<http://www.teacherspayteachers.com/Product/Engineer-Like-a-Superhero-Whats-Your-STEM-Power-1287858>

Amusement Parks

<http://www.teacherspayteachers.com/Product/The-STEM-Carnival-A-Bundle-of-Amusement-Park-Engineering-1313224>

Pirates

<http://www.teacherspayteachers.com/Product/STEM-AHOY-Engineering-with-Pirates-1435625>

Seasons

<http://www.teacherspayteachers.com/Product/Get-Caught-Engineering-in-December-with-STEM-1586489>

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