



Simple STEAM

{Maker Space Task Cards}

Halloween

20 engineering, art, and design task cards perfect for your Maker Space!

Thank you!!

Thank you so much for downloading this resource! I hope that you and your students love it! I am so honored that you took the time out of your busy day to visit my store. I appreciate you so much! And in case no one told you this today:

😊 You are an amazing teacher 😊

Your feedback is important to me. You can reach me at sarah@morethanaworksheet.com Or you can also reach me using the Q&A section of my TpT Store, [More Than a Worksheet](#).

PS: I would LOVE to see pics of how you use my resources in your classroom!

If you are on Instagram, feel free to tag me @morethanaworksheet. I'm also on Facebook and Twitter!

Happy Teaching!
Sarah



The More Than a Worksheet Promise:
I promise to create engaging learning experiences that first and foremost make students think. They are rigorous, standards-based, versatile, and perfect for the teacher who wants to light a spark in students. Teachers don't have extra time to re-invent the wheel with each lesson, but you shouldn't have to sacrifice good teaching practices in lieu of textbooks, test prep, worksheets, and standards. Let me help you add critical thinking, creativity, and fun into your curriculum!

Simple STEAM: Maker Space Task Cards {Halloween Edition}

Notes to Teacher:

Thank you for purchasing this activity! I hope you and your students love it! This makes a great starting point for teachers just beginning their S.T.E.A.M. or Maker Space journey. The tasks in this series are simple enough that students can complete them independently, and they require just a few materials that are easy to come by. Don't be fooled by the simple nature, though. These challenges are designed to make your students think critically and creatively!

What is included?

*There are 20 task cards included with challenges, and I also included 4 blank ones for you and your students to use to create your own challenges. Just print and go. Laminate for durability if you choose.

*A simple rubric

*A student checklist

What materials do I need?

newspaper, tape, aluminum foil, pipe cleaners, index cards, assortment of random building materials.

How should I use these task cards?

I like to design products that are versatile and can be used in various ways to fit your needs. There is no one right way to use them, and I encourage you to try using them in different ways to find what fits best with your classroom. Here are some ideas:

- a Maker Space tub
- a science center where the challenge changes weekly
- a project that students work on in lieu of morning work with a new challenge each day
- fun whole class activities for the end of the year or the days before holidays
- send home for family STEAM time and have parent or students snap a picture of the completed challenge.
- a fun class reward for Fun Friday

A Note about the Tasks:

Most of the tasks are straightforward. Task 17 may need a simple explanation. A cantilever is a solid bar or beam that is attached to the end of a structure and hangs over it. Example: a diving board

What age are they best for?

Most of my STEM & STEAM resources are best for grades 3-5. These in particular may be best for grades 4 and up simply because duct tape can be tricky to handle, tear, and work with.

Is there one right answer? No! Projects such as these are open ended on purpose. There is not a single right solution but many possible solutions that meet the challenge. It may be challenging for students at first to access the creative parts of their brains to think of innovative designs, but the more engineering, creative, and critical thinking activities you do, the more students get comfortable taking risks and finding creative solutions.

Should I show students examples first? I encourage you to let students attempt the projects before helping or showing examples. When students look at examples, they get it in their mind and think that there is just the one way to do it.

How do I grade these?

This is tough for me because I want students to be creative, think critically, and be able to learn from their mistakes, all of which can happen with these task cards. Yet, as teachers, we need to justify spending the time on activities, and a big way to do that is with grades. I created a simple rubric with that in mind. It addresses the skills that I want students to work on. I would love to hear your input because I realize there is no perfect way to grade activities such as this, so this is my attempt to try.

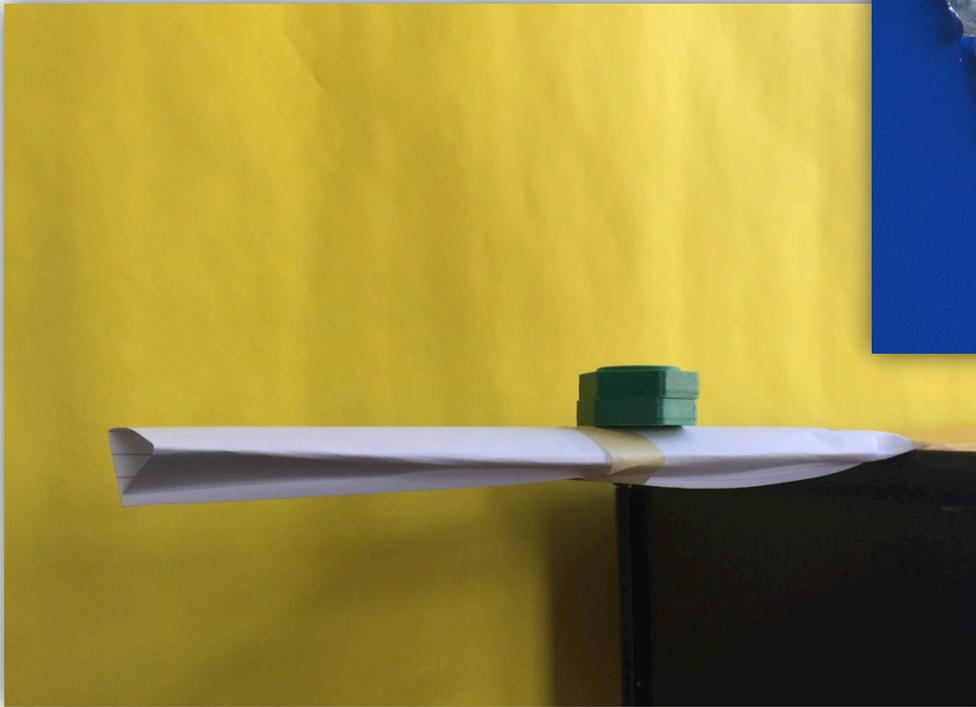
I'm hooked on S.T.E.A.M. What is my next step?

Visit my TPT Store for other STEM and STEAM resources.
<https://www.teacherspayteachers.com/Store/More-Than-A-Worksheet/Category/STEM>

For more Maker Space Task Cards:

<https://www.teacherspayteachers.com/Store/More-Than-A-Worksheet/Category/-Maker-Space-Task-Cards-259058>

Sample
Designs:



Task 17—Owl Perch
(cantilever)



Task 7—Model of a Bat

As with all of my STEM resources, I do not recommend that you show students examples ahead of time. They tend to get the image in their mind and then have trouble seeing a different solution. Let them try on their own, and you will be amazed at what they come up with!



Task 1

Construct a witch's broom that will actually sweep.

Materials: newspaper, tape



Task 2

Design a witch's hat that you can wear on your head.

Materials: newspaper, tape



Task 3

Create a newspaper container that can hold the most Halloween candy.

Materials: newspaper, tape



Task 4

Create a wind sock in the shape of a ghost.

Materials: newspaper, tape



Task 5

Invent a raincoat for the mummy to keep his wrapping dry.

Materials: aluminum foil



Task 6

Design an aluminum foil boat that will hold the most candy pumpkins and still float.

Materials: aluminum foil



Task 7

Create a model of a bat.

Materials: aluminum foil



Task 8

Invent and create a creepy new bug.

Materials: aluminum foil



Task 9

Construct a spider web.

Materials: pipe cleaners



Task 10

Design and make a 3D model of a pumpkin.

Materials: pipe cleaners



Task 11

Create a model of a skeleton

Materials: pipe cleaners



Task 12

Build a basket with a handle that will hold candy for trick-or-treaters.

Materials: pipe cleaners



Task 13

Invent and build a new monster. Give it a name.

Materials:
various building materials



Task 14

Design and create a unique Halloween mask that you can wear.

Materials:
various building materials



Task 15

Create a device that uses a pulley to lift Halloween candy.

Materials:
various building materials



Task 16

Construct a catapult that will launch toy spiders.

Materials:
various building materials



Task 17

Create a cantilever perch for an owl. It should be able to support at least 10 grams of mass. (A diving board is an example of a cantilever).

Materials: index cards, tape



Task 18

Design a strong index card chain that can lift a heavy bucket of candy.

Materials: index cards, tape



Task 19

Create a bridge that can support the most candy pumpkins.

Materials: index cards, tape



Task 20

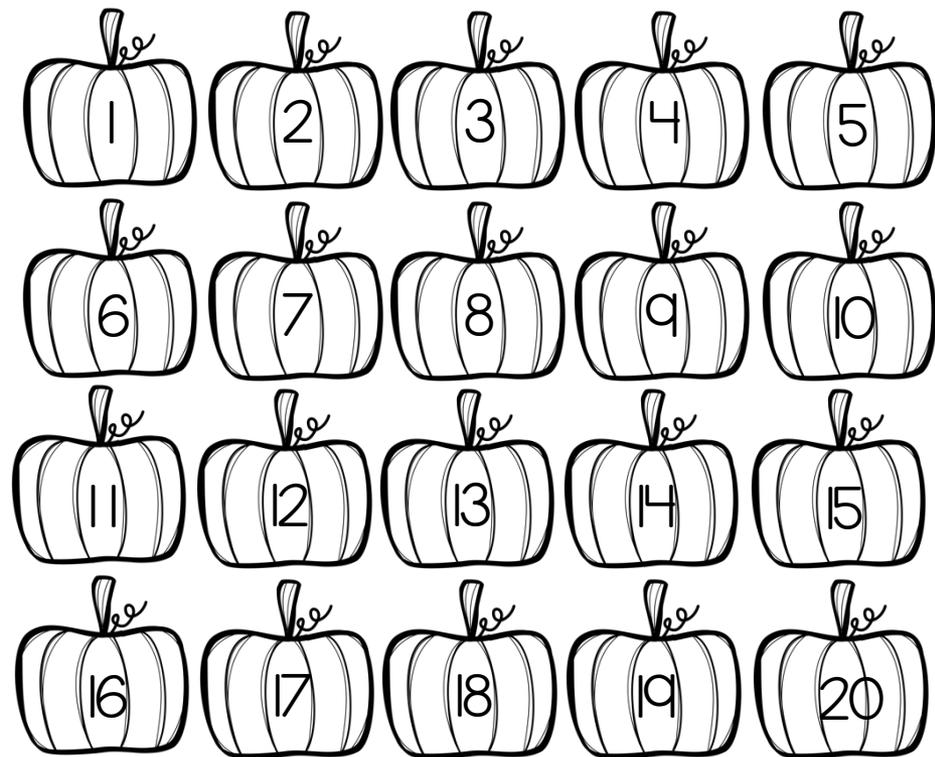
Build a tower that can support a real pumpkin.

Materials: index cards, tape

Name _____

Maker Space Task Cards {Halloween Edition}

Use this page to keep track of the tasks that you complete.
Color in the pumpkin when you complete the task card



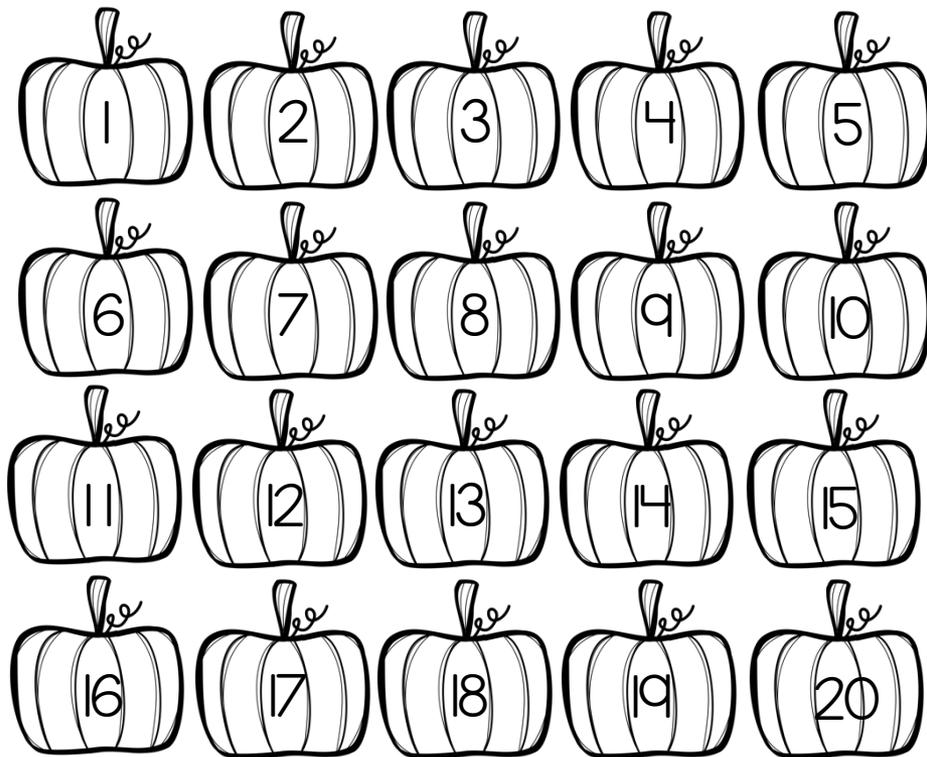
Which task was your favorite? Why?

Which was your least favorite? Why?

Name _____

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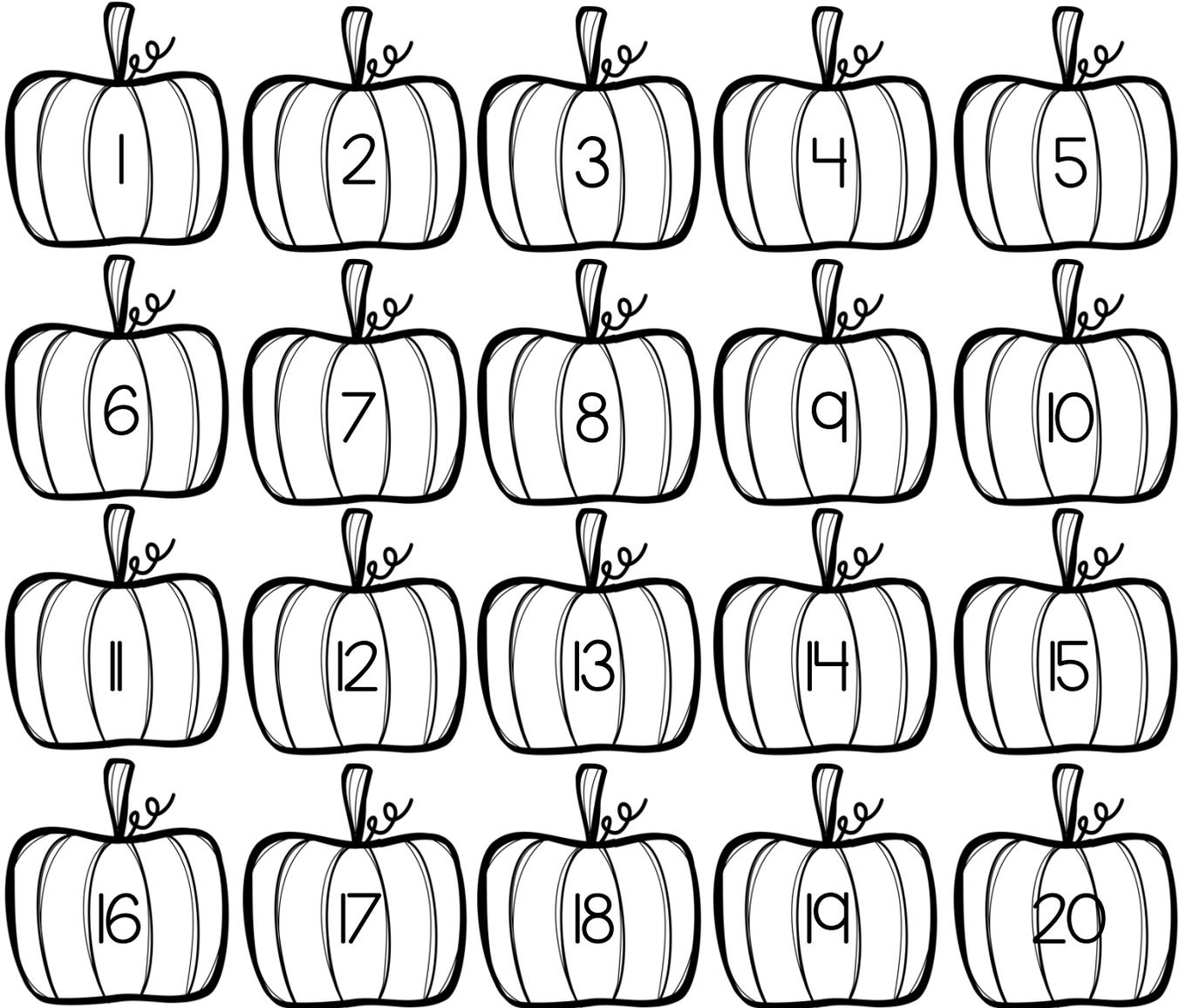


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Maker Space Task Cards

{Halloween Edition}



| | Rarely (1 point) | Sometimes (2 points) | Usually (3 points) | Always (4 points) |
|---|---------------------|-------------------------|-----------------------|----------------------|
| I create original and innovative designs. | | | | |
| I try my best on all tasks. | | | | |
| I use all materials the correct way. | | | | |
| I work cooperatively with my teammates. | | | | |
| I am flexible if my design flops. | | | | |
| I am focused and engaged with the tasks. | | | | |

Grade: _____ Comments: _____

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Name _____

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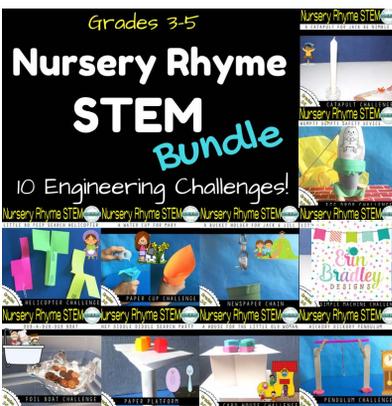
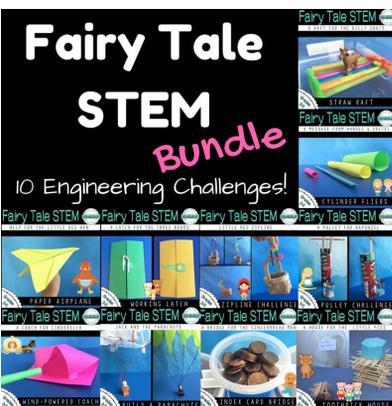
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Comments:

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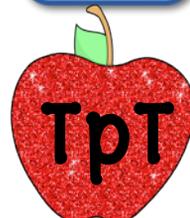
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