



Simple STEAM

{Maker Space Task Cards}

Valentine's Day

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 {Valentine's Day 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, paper, tape, index cards, aluminum foil, assorted building materials or craft supplies (pipe cleaners, coffee filters, whatever materials you have on hand)

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

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.

What S.T.E.A.M. components are addressed?

With these tasks, students will use creative thinking skills to tackle Engineering challenges. They will also tap into Art and design and some geometry and measurement skills.

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>

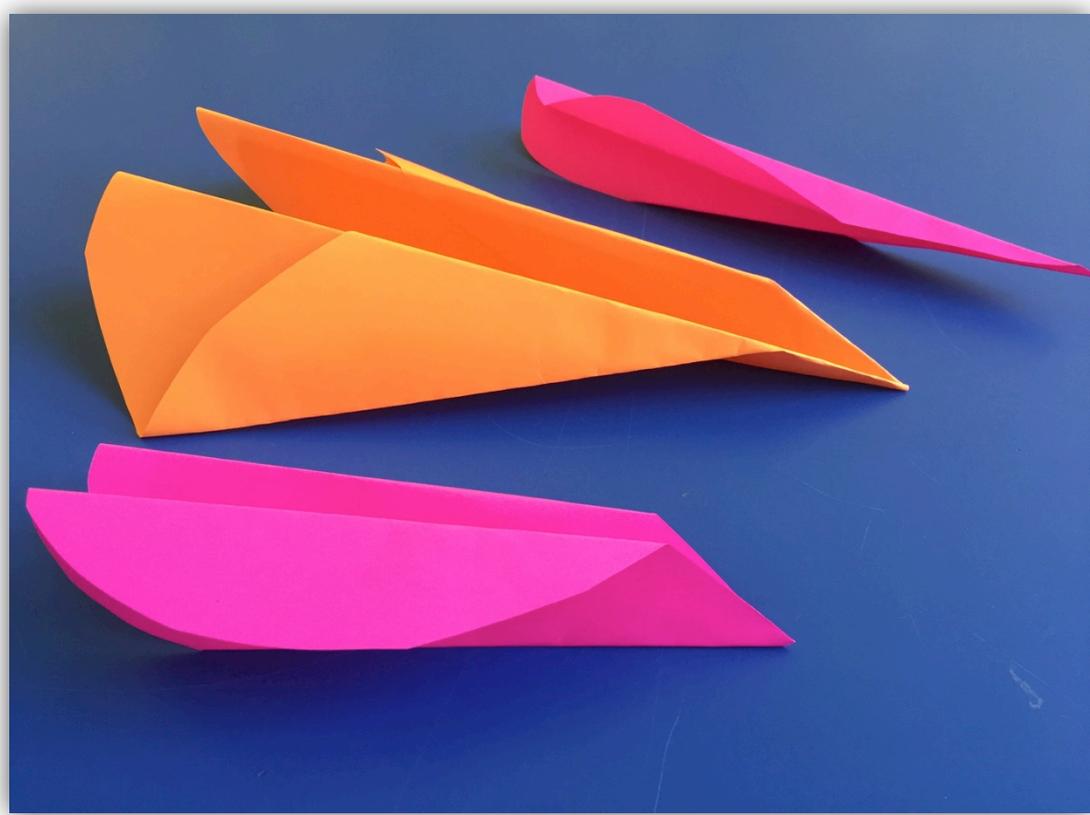
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Sample
Designs:



Task 11—Cupcake Table



Task 8—Heart-Shaped Paper Airplanes

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 newspaper pouch that will hold Valentine cards.

Materials: newspaper, tape



Task 2

Build a bowl that will hold all of your Valentine candy and cards.

Materials: newspaper, tape



Task 3

Construct a heart shaped candy box.

Materials: newspaper, tape



Task 4

Create a newspaper boat for Cupid to use when he gets tired of flying. It should float and support 10 grams of mass.

Materials: newspaper, tape



Task 5

Design and create a pop up Valentine card.

Materials: paper, tape



Task 6

Design a paper heart sculpture. It should be 3 dimensional, stand on its own, and be made entirely of paper hearts.

Materials: paper, tape



Task 7

Create a model of a Valentine cupcake.

Materials: paper, tape



Task 8

Create a paper airplane from a paper heart. Experiment with different sizes and shapes of hearts to see which design flies the best.

Materials: paper, tape



Task 9

Design a new series of Valentine cards.

Materials: index cards



Task 10

Construct an arrow that flies the farthest distance.

Materials: index cards, tape



Task 11

Construct a table that will hold a Valentine cupcake.

Materials: index cards, tape



Task 12

Create a container that will hold a lollipop upright.

Materials: index cards, tape



Task 13

Construct a bridge using only aluminum foil. It should stand on its own and hold at least 5 candy hearts.

Materials: aluminum foil



Task 14

Design a 3D model of a heart.

Materials: aluminum foil



Task 15

Invent a device or container to hold jewelry.

Materials: aluminum foil



Task 16

Create a mailbox that will hold Valentine cards.

Materials: aluminum foil



Task 17

Invent a device that will launch candy hearts.

Materials:
various building materials



Task 18

Create a vehicle that rolls with wheels and can carry at least 10 Valentine cards.

Materials:
various building materials



Task 19

Design a new piece of Valentine jewelry for your teacher to wear.

Materials:
various building materials



Task 20

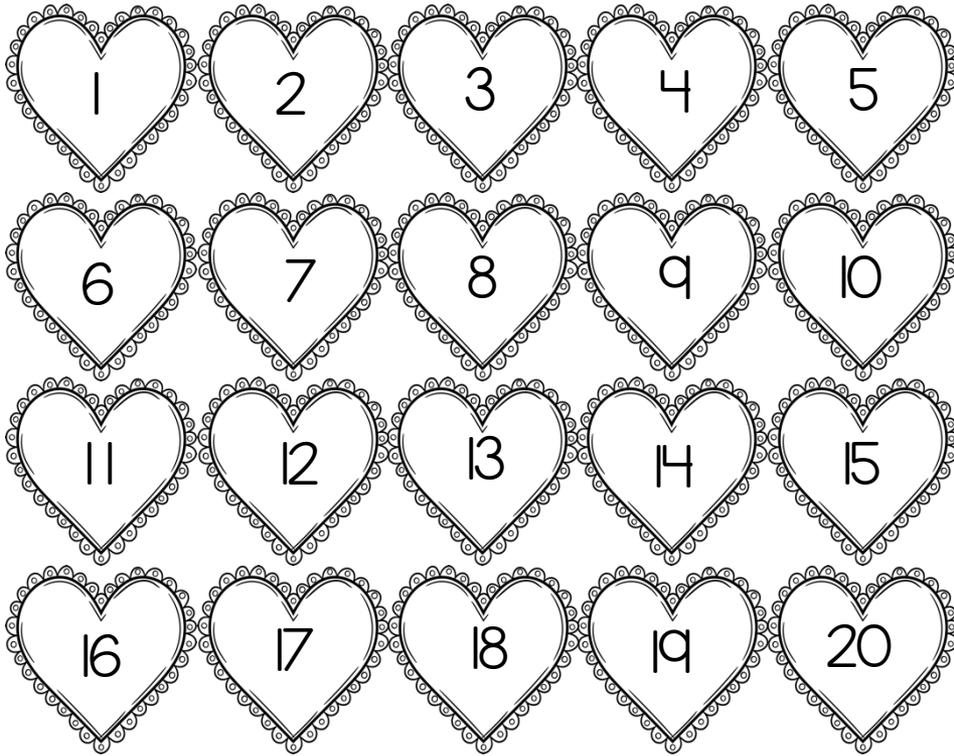
Design and build a bucket that will carry the most Valentine candy.

Materials:
various building materials

Name _____

Maker Space Task Cards {Valentine Edition}

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



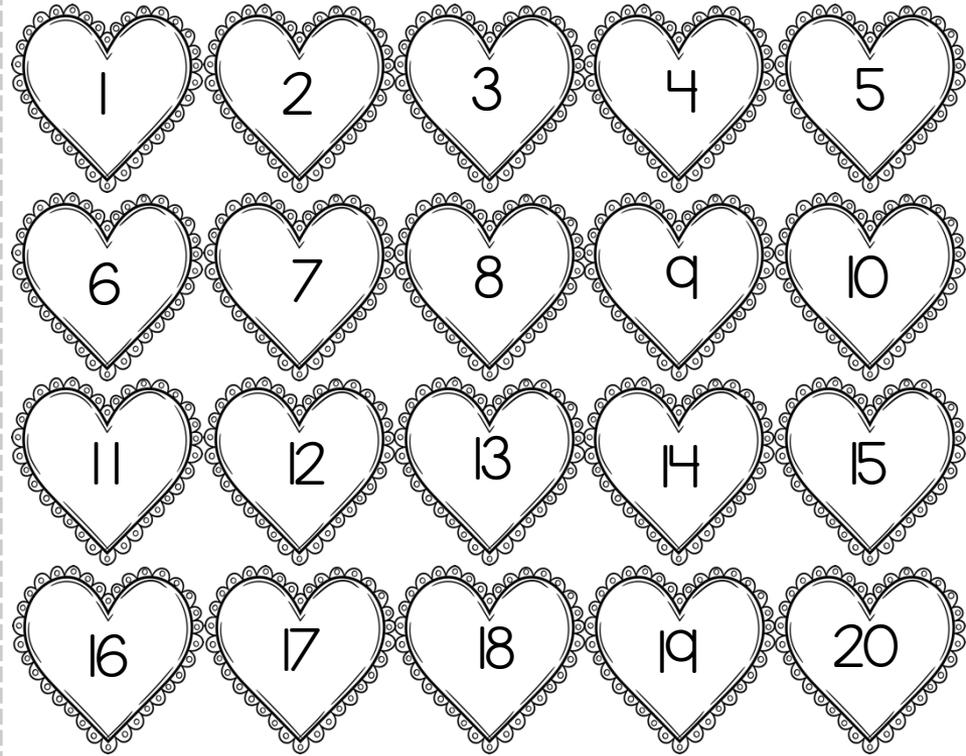
Which task was your favorite? Why?

Which was your least favorite? Why?

Name _____

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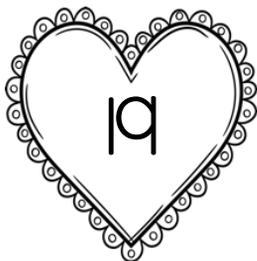
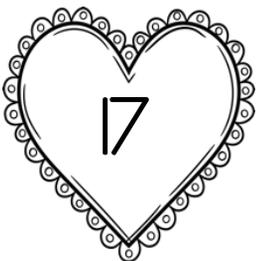
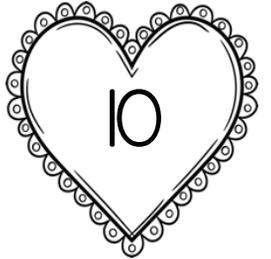
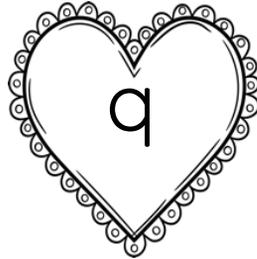
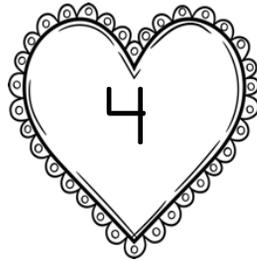
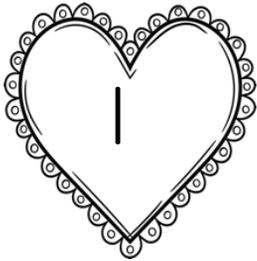
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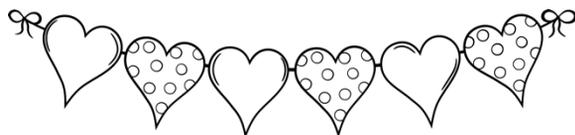
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Maker Space Task Cards

{Valentine 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.				

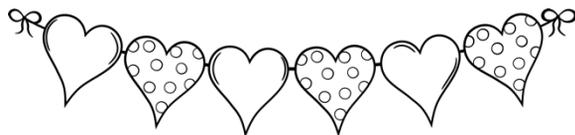
Grade: _____ Comments: _____

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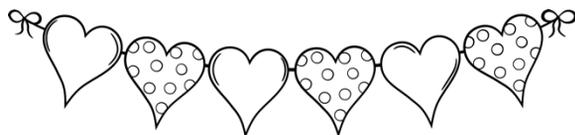
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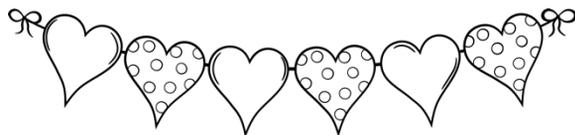
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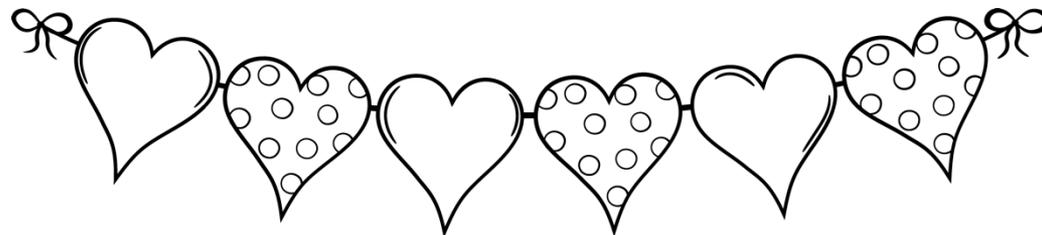
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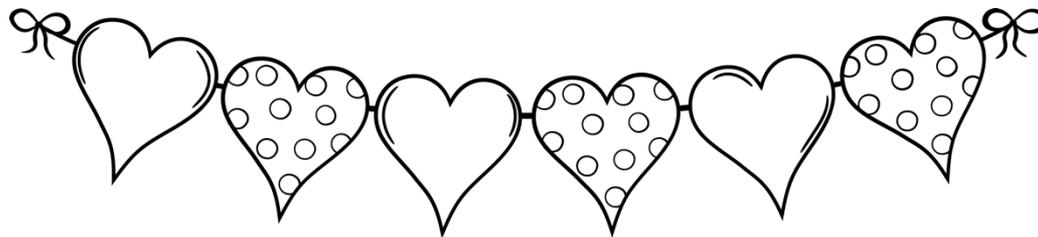
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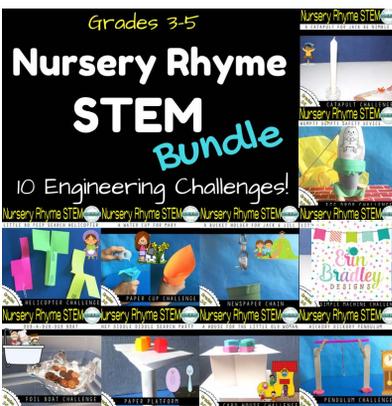
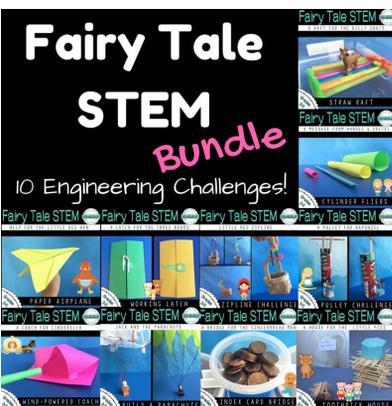
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Comments:

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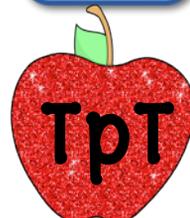
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