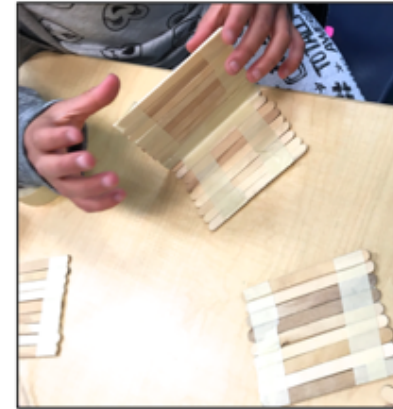


GROWTH MINDSET

S.T.E.M.

Goldilocks



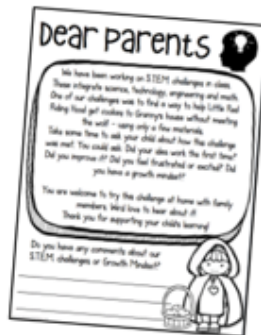
resources overview

The program is developed to be completed in the order below, however single pages can be used in isolation as well.

- 1 PARTNER PLAY** - Read and perform the partner play. These are meant to be funny and engaging. The characters illustrate growth mindset and fixed mindset concepts, and also set up the STEM challenge.
- 2 GROWTH MINDSET WORKBOOK** - Activities prompt students to write, sort, and reflect on growth mindset in the story.
- 3 STEM CHALLENGE** - Complete the STEM challenge that is presented at the end of the story. Students will be solving the problem using the materials you provide.
- 4 STEM WORKBOOK** - Complete the workbook pages for brainstorming, collaborating, planning and describing the collaborative process.

Pictures shown are from the Little Red Riding Hood set.


Parent letters with blank versions are included so students can share their experience and learning with parents.



Stem Challenge CHECKLIST

- I collaborated by sharing ideas.
- I brainstormed different ideas.
- I planned my project with words and pictures.
- I tested and improved my idea if needed.
- I kept trying even when things were hard.
- I shared my project with friends.

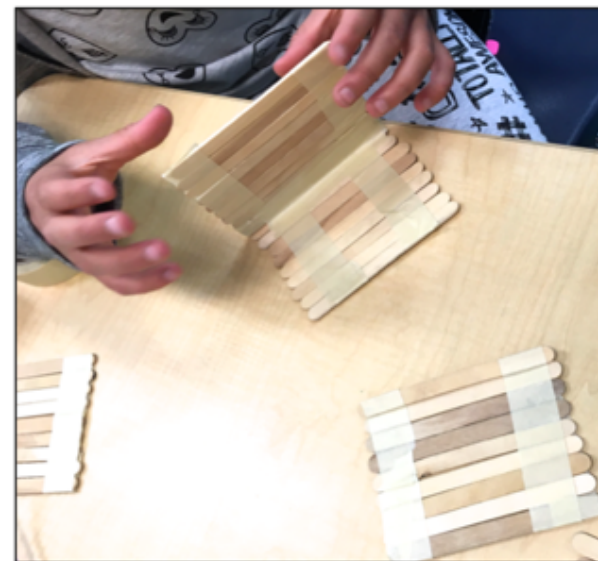
What was your favorite thing about this challenge?



The STEM Challenge:

This STEM challenge involves building a chair that can support weight. Here is one example from my students. Popsicle sticks and masking tape, and thick paper were used to construct different kinds of chairs. The paper prop Goldilocks (included) is used to help visualize the idea.

TESTING: How much weight can the chair hold? Students can test to see which chair can hold the most weight (ie: coins or metal washers), or you can set a number (ie: 25 coins) that a chair will have to hold to be considered a success.



Goldilocks & the Great Chair Repair

Narrator

Baby Bear

Goldilocks

Narrator Goldilocks went into the House of Bears.
She ate some porridge and broke a chair, and
then she got sleepy.

Goldilocks Oops - I broke a chair! I'm too tired to fix it now.
I'm going to find a comfy bed and take a little nap.

Narrator Goldilocks fell asleep in bed. When the bears got
home, they found Baby Bear's broken chair.

Baby Bear Oh, NO! Look at my favorite chair!
Where will I sit now? This is terrible!

Narrator: Goldilocks woke up when she heard all the
crying and yelling.
She went out to see what the fuss was about.

Baby Bear There she is! That must be the girl who broke
my favorite chair! How could you do that?

Goldilocks I am so very sorry that I broke your chair! It was an
accident. But don't worry. I was going to fix it for you
as soon as I woke up from my nap.

Baby Bear What? You can't fix it! It's too special and
perfect. It can never be fixed. Just throw it
away and I'll have to sit on the floor forever.

Goldilocks & the Great Chair Repair

Goldilocks You won't have to sit on the floor, Baby Bear. I will build you a chair that is even better than before. It will be so strong that even Papa Bear could sit on it!

Baby Bear That's impossible.

Goldilocks It's possible, but it might not be easy. This will take some time and effort.

Narrator **Goldilocks gathered all the broken pieces and put them together again. She used some glue to make it stay together.**

Goldilocks There, I'm done! I think your chair looks as good as new! It's time to test it to see if it's strong enough for Papa Bear now.

Narrator **Papa Bear walked over and sat on the chair. It creaked. It cracked. And then... it broke into a million little pieces.**

Baby Bear WAAHHHHHH! I told you it was impossible! There's no point in trying anymore.

Goldilocks & the Great Chair Repair

Narrator The three bears watched Goldilocks to see what she would do next. Would she give up? Would she leave and never come back?

Goldilocks I am feeling disappointed right now, but I won't give up. This is a challenge for me, and I like to challenge myself!

Baby Bear I don't like challenges. I'm not good at figuring things out like you are. I miss my chair!

Goldilocks Sometimes my first idea doesn't work, so I have to change it. Let's see... I put the old chair material back together, and I used some glue, but it still fell apart. What am I missing?

Narrator So Goldilocks started thinking of a new idea to make the chair very strong. She was determined to fix the chair she broke.

STEM Challenge:
Help Goldilocks design a chair that can hold a lot of weight without breaking.

Before you start, decide how you will test the strength of the chair, such as stacking coins or blocks on top. Will your chair hold the weight?

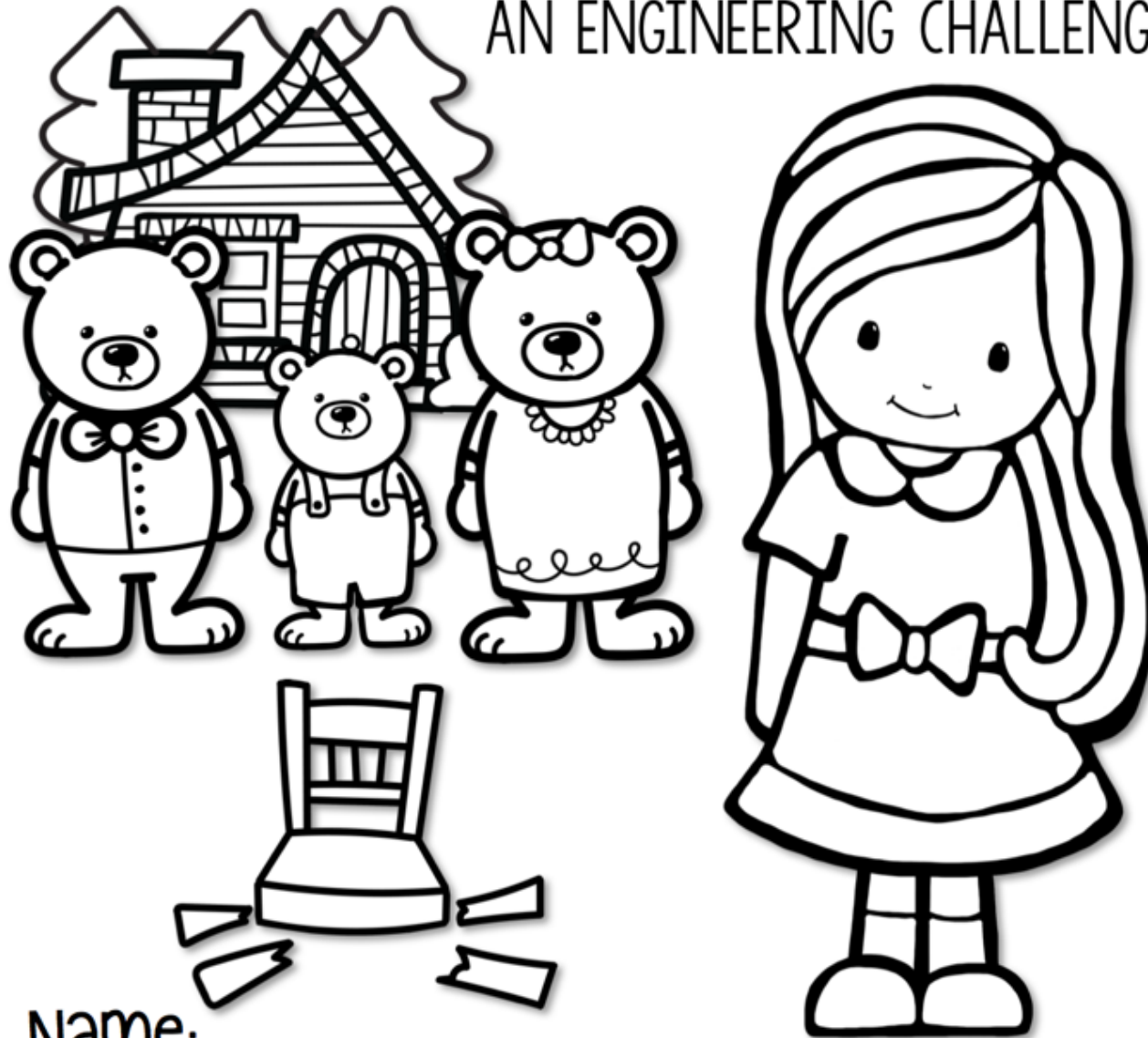
Which chair design can hold the most weight?

Growth Mindset S.T.E.M.



Goldilocks & the Great Chair Repair

AN ENGINEERING CHALLENGE



Name: _____

BRAINSTORM IDEAS



How can Goldilocks build a strong enough chair?
Write and draw all your ideas for this challenge.

Who is working with you on this challenge?

How do you feel about this challenge?

My Growth Mindset Steps



Write about the steps you took during this challenge.
Did you feel excited or frustrated during some parts?

My STEM challenge was to



MY MATERIALS

The first thing I did was

I felt...

The next thing I did was

I felt...

The next thing I did was

I felt...

I completed my challenge by

I felt...

STEM Challenge Review

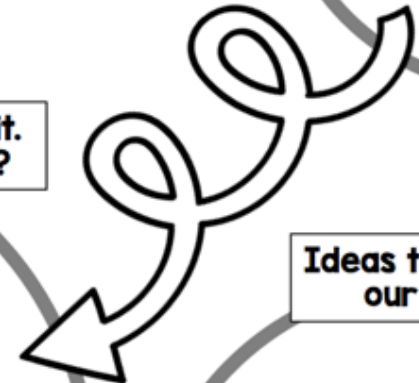


Some of the ideas we had:



We chose this idea:

We made a model and tested it.
Did it work? Why or why not?



Ideas to improve
our model:



I used a growth mindset during my STEM challenge when _____

Growth Mindset STEM

Write about this challenge. What worked? What didn't work?
Did you have to change your ideas? What did you learn?



An idea that didn't work

So here's what I did



I improved my idea this way

Here's what I learned

Glue the two ends of the long strip together to make a loop behind the image. It will stand up by itself.

