

Teach
to
Dream

PRINT & GO!

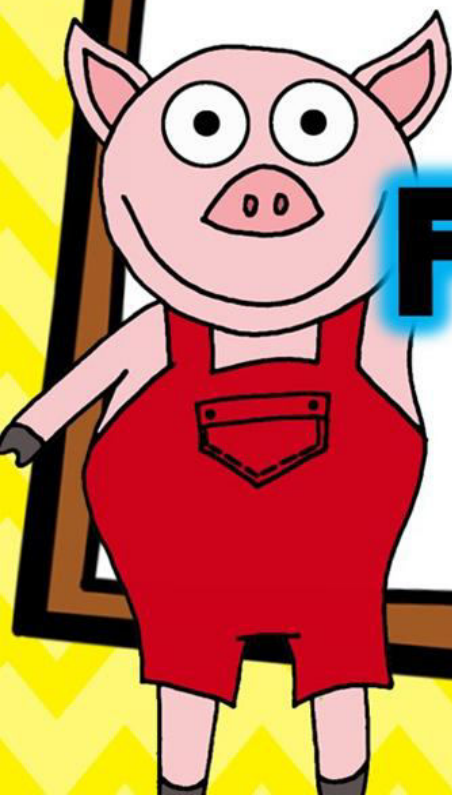
STEM/ STEAM CHALLENGES

INCLUDES:
~Task Cards
~Task 3D display
~Student sheet
~Reflection
~Foldable



FAIRY TALE FUN!

BUNDLE!



I'll Huff and Puff

The Scenario: The Three Little Pigs urgently need to build a strong house to protect themselves from the Big, Bad, Wolf. How are you going to make them a safe house?



The challenge: You have been asked to build a house for the pigs. Remember it needs to be able to stand up by itself, not be blown down by puffs of air and be able to hold 3 little pigs (glue sticks). What materials are you going to use? How will you design your house to make it sturdy?



Possible Materials to use:

- ~ Pop sticks
- ~ String
- ~ Paper
- ~ Craft items
- ~ Glue
- ~ Scrap materials around the class.



Remember to:

- ☐ Complete the design stage first.
- ☐ Record the process/ steps as you complete them.
- ☐ Work as a team.
- ☐ Listen to other group member's ideas, and test them out.
- ☐ Actively contribute to the task.
- ☐ Be sensible and on task.
- ☐ Clean up after yourself
- ☐ Over come challenges – think how you could do it differently.
- ☐ Decorate it with your own personal touch.
- ☐ Be CREATIVE

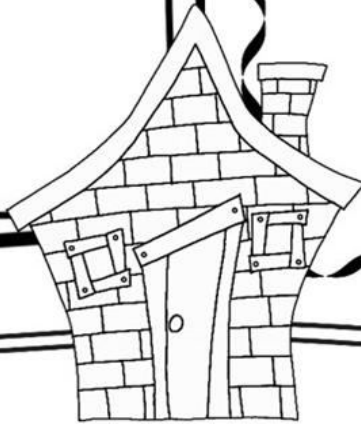
TITLE:

Materials Used:

Type here

DRAW IT!

Insert shapes and lines to create
your design:



The Process:

Step 1: Type here

Save Grandma

The Scenario: When the wolf comes to Grandma's house she is fooled into thinking it is Little Red Riding Hood. How could a device help Grandma know who it really is?

The challenge: To design and sketch some ideas for a device that will help Grandma know who is really at her door. Will you have a finger print scanner on the door handle or a special camera that detects facial features, what ideas will you come up with?



Possible Materials to use:

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- ~ Glue
- ~ Scrap materials around the class.



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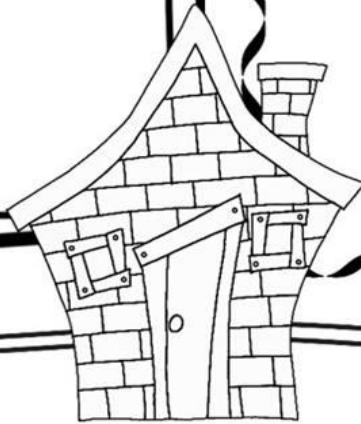
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DRAW IT!

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your design:



The Process:

Step 1: Type here

A Great Fall

The Scenario: We all know that when Humpty Dumpty had a great fall he could not get put back together again. But what if there was a way to protect Humpty when he fell?

The challenge: To design and create a way to protect Humpty Dumpty when he falls. This could involve creating a soft landing, making Humpty a parachute or giving him a padded suit. What ideas can you think of?



Possible Materials to use:

- ~ Pop sticks
- ~ String
- ~ Paper
- ~ Craft items
- ~ Glue
- ~ Scrap materials around the class.
- Egg (optional)



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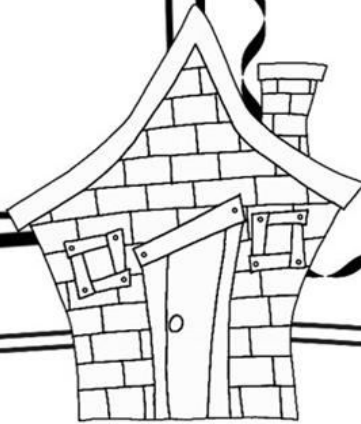
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The Process:

Step 1: Type here

Just Right

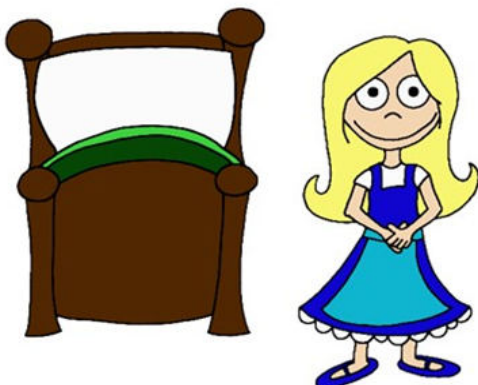
The Scenario: Goldilocks has arrived at the three bears house. She can not find a bed or a chair that is suitable for her height and comfort.

The challenge: To design and build either a chair that can hold weight (a rock or glue stick) or a bed that Goldilocks will find extremely comfortable. What materials could you use to make it the best bed ever?



Possible Materials to use:

- ~ Pop sticks
- ~ String
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- ~ Glue
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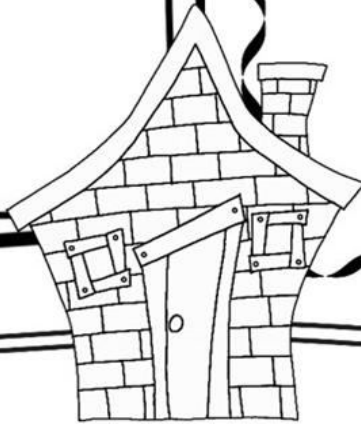
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your design:



The Process:

Step 1: Type here

Reflection

Team work

I would rate my groups cooperative skills as 1 2 3 4 5.
Give reasons for your choice.

Type here

How did you share the roles and jobs?

Type here

How did you handle any differences of opinion/ issues?

Type here

New Learning

What new science/ technology concepts have you discovered?

Type here

How do you think your design could assist others/ be used in society?

Type here

What data did you use?

Type here

Challenges

What challenges did you come across?

Type here

How did you work to fix them?

Type here

If you were to do this task again, what would you change and why?

Type here



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