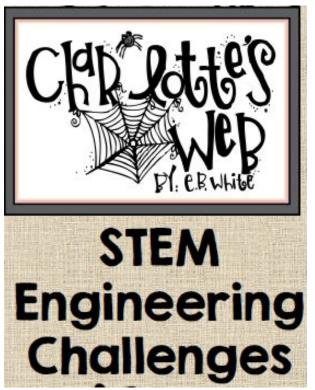
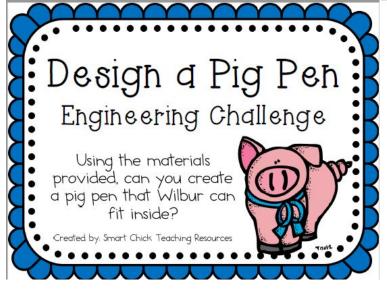
3rd Grade Summer Project



After reading "Charlotte's Web", complete the "Design a Pig Pen" STEM activity. Bring the activity with you on the first day of school.



Teacher Directions

Materials:

- Popsicle sticks (large and small)
- Cardboard pieces
- Aluminum Íoil
- Tape and scissors
- Straws

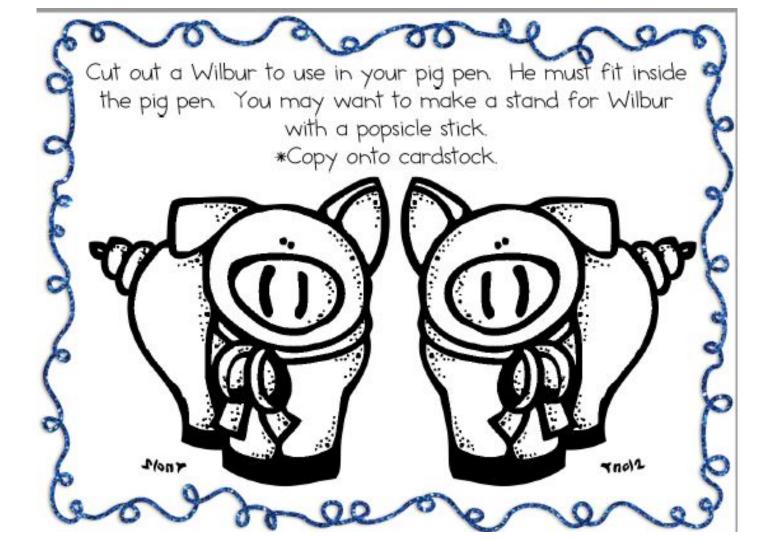
Set-Up:

- Place materials in a central location, you can also ask students to bring in additional materials to share with the classroom. Challenge them to think of and find items that they could use to build a free-standing pig pen
- Provide a flat surface for the construction of the pig pens.
- Students will need to color the cut out their Wilbur. They can also create a stand for him.

Goal:

Students will construct a pig pen using the materials provided that will fit their Wilbur cut-out inside.



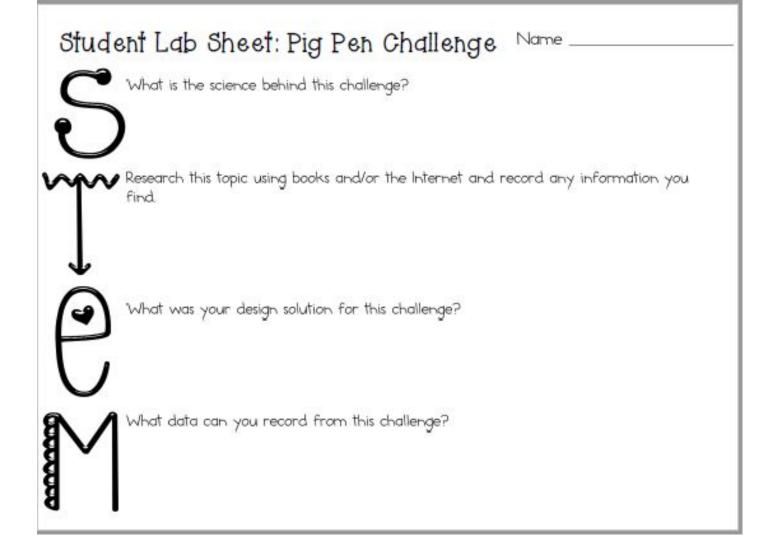




Student Lab Sheet: Pig Pen Challenge Were you successful in this challenge? Why or why not?	Name My Questions:
"What was the most difficult part of this challenge? Why?	
What was the best idea you came up with during this challenge?	
"What are the dimensions of your pig pen? Does Wilbur fit inside the pig p	en? Why or why not?

"What did you learn about construction and engineering during this challenge?

Sketch your solution on the back of the sheet.





Teacher Directions

Materials:

- Paper plates
- Yarn
- Pipe cleaners
- Plastic spiders (optional)
- Glue and scissors
- Hole punch
- Tape measure or ruler

Set-Up:



- Place materials in a central location, you can show students an example or let them try to do the challenge without one.
- Provide a flat surface for the construction of the webs.
- Students can use pipe cleaners or a paper plate as the base for their web.

Goal:

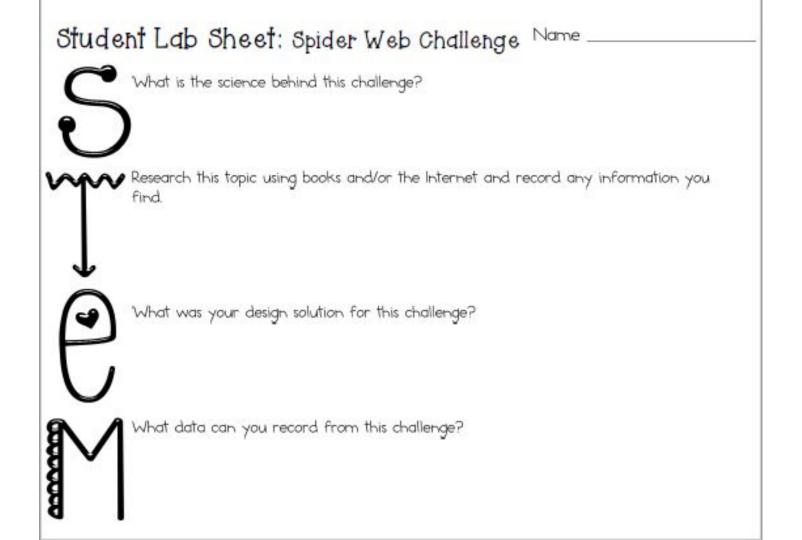
Students will construct a spider web with a message inside it using the materials provided.

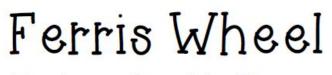


Student Lab Sheet: Spider Web Challenge Were you successful in this challenge? Why or why not?	6 Name My Questions:
What was the most difficult part of this challenge? Why?	
What was the best idea you came up with during this challenge?	
What message did you place in your spider web? How much yarn do yo	u think you used in your design?

"What did you learn about construction and engineering during this challenge?

Sketch your solution on the back of the sheet.





Engineering Challenge

Can you create a working ferris wheel using only found materials? Created by Smart Chick Teaching Resources

Teacher Directions

Materials: (per student)

- Variety of found materials (recyclable or craft)
- Scissors, tape and glue
- Cardboard and paper scraps
- Popsicle sticks, straws, small plastic cups, etc.
- Metal brads

Set-Up:

- Give students the materials needed. Students can also bring in a variety of materials for this challenge.
- Students may need to sketch some of their ideas before they begin construction of their ferris wheel.
- Provide a flat surface for the construction

Goal:

Students will construct a working ferris wheel from found materials.





	sful in this challenge? 1	Why or Why hol?	My Questions:	
what was the m	ost difficult part of this	challenge? Why?		
What was the b	est idea you came up w	ith during this challenge?		
Did your fernis v	wheel work? Why or v	vhy not? Describe how it wo	orks and how you made it.	
What did you le	arn about construction o	and engineering during this d	hallenge?	

