

Unit Name/Theme: Three Little Pigs/Construction

What are we doing? What materials are the strongest?

Purpose/Why?

- Using scientific inquiry skills
- Demonstrating knowledge of the physical properties of objects and materials
- Using tools technology to perform tasks

Materials

Provided: Straw, sticks, Legos

You will need to provide: Writing materials, hairdryer, various objects to blow and use to build

Books:

- “Three Little Pigs” by Paul Galdone
- “Construction Countdown” by K.C. Olson



Quick Start

- Explore the building materials in the unit.
- Ask what do you notice about these materials?
- Discuss which materials would make the strongest building. Have the children guess (hypothesize) what material would be the strongest. Have the children tell you why they think that?
- Make buildings with the materials.
- Discuss which building was the strongest. Ask what did they discover or find out?
- Read The Three Little Pigs. Use the suggested questions and discuss vocabulary words.



Deeper Dive

- Make the buildings again with the materials.
- Have the children make a prediction as to what will happen.
- Try to blow the buildings down.

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Ask a Question

- What happened? Why does your child think this happened?
- Ask your child if they can make a tall tower that will not fall down with someone blowing on it.
- Ask "Why they choose materials?" Ask "How tall can you make it?"
- Measure the structure using the ruler. See what else they can find to measure the tower.

Big Bad Wolf Challenge

- Can you and your child build a structure with the materials that will not blow down when using a hairdryer?
- Use different household items to build structures that will stay up when blown with a hair dryer.



Ask a Question

- Why do you think the straw and stick houses blew down?
- Why did the brick building stay?
- What else do you think would be strong enough?
- How can we make a house that would not blow down?



Vocabulary Builder

Collapse Strong Blow Force Structure Hypothesis

Other Activities: Find various items around the house to blow down. Guess (a Hypothesis) which items you will be able to blow. Experiment with how far they can be blown, then measure and compare results.