



Engineering Institutes:

Three Little pigs

Standards:

Ohio Standards:

PS.K.1.A: Objects can be sorted and described by the properties of the materials from which they are made. Some of the properties can include color, size and texture.

SL.K.3: Ask and answer questions in order to seek help, get information, or clarify something that is not understood.

PA Standards:

3.2. K.A1: Identify and classify objects by observable properties of matter. Compare different kinds of materials and discuss their uses.

CC.1.5.K.A: Participate in collaborative conversations with peers and adults in small and larger groups.

CC.1.5.K.C: Ask and answer questions in order to seek help, get information, or clarify something that is not understood.

Materials:

- Book: The Three Little Pigs
- Popsicle Sticks
- Straws
- Cardboard
- Index Cards
- Tape
- Hair Dryer or Fan

Preparation: Grab the materials that you will need to complete the challenge.

Procedure:

1. Read the “The Three Little Pigs” out loud to your child/students.
2. After reading the story, ask your child/students about the materials that were used to build each house. Then ask your child/students which material was needed to build a strong house?
3. Introduce the Three Little Pig challenge to your child and discuss that they will be building a house that the big, bad wolf can’t blow down.
4. Depending on age you can have requirements such as:
 - House be built on provided foundation (must have bottom and a roof)
 - Only use the materials that you gathered.
5. Once the house is completed, use your fan or hair dryer to try and blow down the house.

Extension:

- If the house does fall, you can ask your child/student what changes can be made to make their house to make it stronger. Your child/student can be given time to redesign/rebuild their houses.
- Have the child/students build three different houses and see which one is the strongest.

Post Questions:

1. Which house of the three you built was the strongest and why?
2. Was a house stronger because of the materials you used or the design of the house?
3. Why do you think your house either stayed up or fell down?
4. What changes did you make to your house to make it stronger?