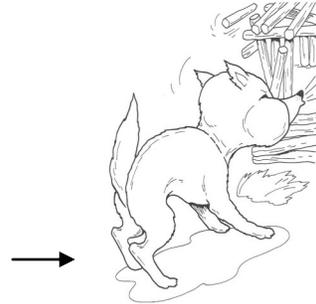


# House of Strength!

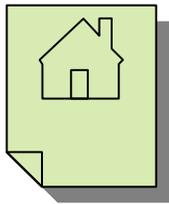
Your Client: The Three Little Pigs are looking into buying a safe and sturdy home. It is extremely important that your design meets the following expectations:

1. They want their house to look appealing.
2. It must be strong enough to withstand the Big Bad Wolf's mighty strong breath of wind for 5 seconds or more.

Big Bad  
Wolf



Your Task: Working as a team you will have **1 hour** to design, build, and test 3 different houses for structural strength. You will then have **1 hour** to design and build a final house that looks aesthetically pleasing, (that means it cannot look like a box) and will withstand the force of a hairdryer - (Big, Bad Wolf's Breath) for 10 seconds or more based on data found in your first three trials.



← House

Your Planning: You should spend about **20 minutes** on this stage. During this planning time you are allowed to handle the materials, measure, draw, test for strength, and create a data chart. You **may** design, draw, and discuss what your houses will look like. You are **not** allowed to assemble anything at this stage.

## Your Criteria:

- Is your material aesthetically pleasing?
- Is your material easy to build with? Connect together?
- Is it strong? Will it hold out for 5 seconds or longer?

## Your Constraints:

- You must use only 1 type of material at a time.
- Your test wall cannot be bigger than 4" x 6".
- Your final house cannot be bigger than 4" x 4" x 6" tall.