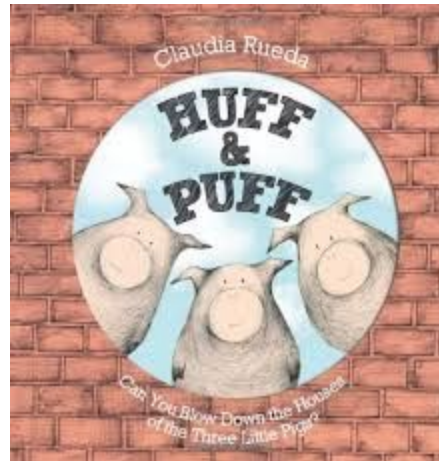


Design Challenge for October 24th- November 11th
Version 1



Situation: We just finished reading Huff and Puff, the story of the three little pigs and their attempts at building a house to stay safe from the big, bad, wolf. Now you will create a model shelter that can stay standing when challenged by the winds of a F2-F3 tornado (a very strong “huff and puff”).

Challenge: Can you design and build a shelter that will stay standing during the strong winds of a tornado?

Directions:

- You are only allowed to use materials from the material/resource list.
- You are not allowed to use more resources than given. You do not have to use all of the resources available to you.
- Your shelter must be freestanding.
- After you create your shelter, it will be tested to determine its ability to withstand the high winds created from a simulation tornado.

Materials/Resources:

Choose 1 of these items to use as your main building material----

Straws Craft sticks Fettuccini Noodles

Other items to use (if you choose to use them):

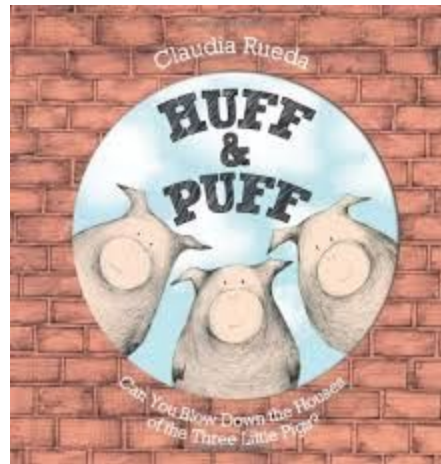
- 1 sheet of paper
- 2 pipe cleaners
- glue stick or glue (as needed from your classroom supply)
- 1 envelope
- 2 Cups
- 12 inches of tape per group

Enhanced Fujita Scale

EF-0	65–85 mph winds
EF-1	86–110 mph
EF-2	111–135 mph
EF-3	136–165 mph
EF-4	166–200 mph
EF-5	>200 mph

Design Challenge for October 24th- November 11th

Version 2



Situation: We just finished reading Huff and Puff, the story of the three little pigs and their attempts at building a house to stay safe from the big, bad, wolf. Now you will create a model shelter that can stay standing when challenged by the winds of a F2-F3 tornado (a very strong “huff and puff”).

Challenge: Can you design and build a shelter using the KEVA structures that will stay standing during the strong winds of a tornado?

Directions:

*Use the KEVA blocks to build a house for one of the little pigs.



Once time is up, your teacher will use the fan to check your structure against the strong winds of a tornado!