

# Family STEAM Challenge

## Windproof Home



**The Scenario:** We live in Chicago, which has the nickname of the “Windy City”. It gets windy in Chicago but some parts of the country suffer from tornadoes or hurricanes. Houses in these areas need to be built extremely tough to handle the strong winds. If you lived in an area with hurricanes or tornadoes, what could you do to protect your home? How could you make sure the windows don’t break? How could you prevent the roof from flying off?

**The Challenge:** To design and create a model of a house or an apartment that can handle strong winds. Make a drawing of your home and all the things you could add to protect it from a tornado or hurricane. Can you build a windproof house? Can your house stay upright when a strong wind blows? How can you test your house?



### Remember to:

- ☐ Complete the design stage first. Draw it out.
- ☐ Record the process/steps as you complete them.
- ☐ Try to improve your project. How can you make it better?
- ☐ Be CREATIVE!
- ☐ Have Fun!

For a list of materials allowed for this project go to page 2.

You can use these **ANY MATERIALS** in this project.

**Possible Materials:**

- ☐ Paper
- ☐ Cardboard
- ☐ Plastic
- ☐ Toothpicks
- ☐ Popsicle sticks
- ☐ Tinfoil
- ☐ Straws
- ☐ Tape
- ☐ Glue
- ☐ Craft Materials

**BE SURE TO EXPLAIN WHY  
YOU CHOSE THE MATERIALS  
YOU DID TO MAKE YOUR  
WINDPROOF HOUSE!!!!**