

Name:

Date:

Class:

## Paper Tower Worksheet

### Materials

- 3 sheets of paper
- 24 in (60 cm) of tape
- 1 pair of scissors

### Imagine

1. In the space below, brainstorm ideas of the free-standing tower you want to build. Compare your ideas with your teammates and pick the design you want to try first.

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### Plan

2. Draw the design your team chose to be the best solution to the problem in the space below.

### Create

3. Build your tower. (It should look like your drawing above.)

a. What worked with your design?

b. What didn't work with your design?

c. What was your tower's height in centimeters?

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## Test

4. Test your tower by stepping away so it is at arm's length. Have one team member blow out a full breath of air to simulate a hurricane.
  - a. What happened when the simulated hurricane wind was applied to your tower?
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  - b. What do you want to change in your design? Why?

Repeat Planning, Creating, and Testing (Steps 2-4) until you are prompted to move onto your final design.

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### Improve

5. In the space below, draw a picture of your final design below.

a. What was your tower's height in centimeters? \_\_\_\_\_

b. Did you make changes to your original design? Explain why and how that affected your new tower.