

Student Activities



TYPHOON TOWER

Design Challenge

TYPHOON TOWER Design Challenge

Typhoon Tower Challenge 2.0

Directions: Take a look at these images of the Burj Khalifa. What do you notice about the design that may contribute to the stability and safety of the world's tallest building? Record your observations in the space below.



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Typhoon Tower Challenge 2.0

Directions: Great engineers always start with careful planning. Use the space provided to plan, test and redesign your typhoon towers.

Step 1: List materials you'll need, sketch your plans and note any other details that will help you organize your ideas.

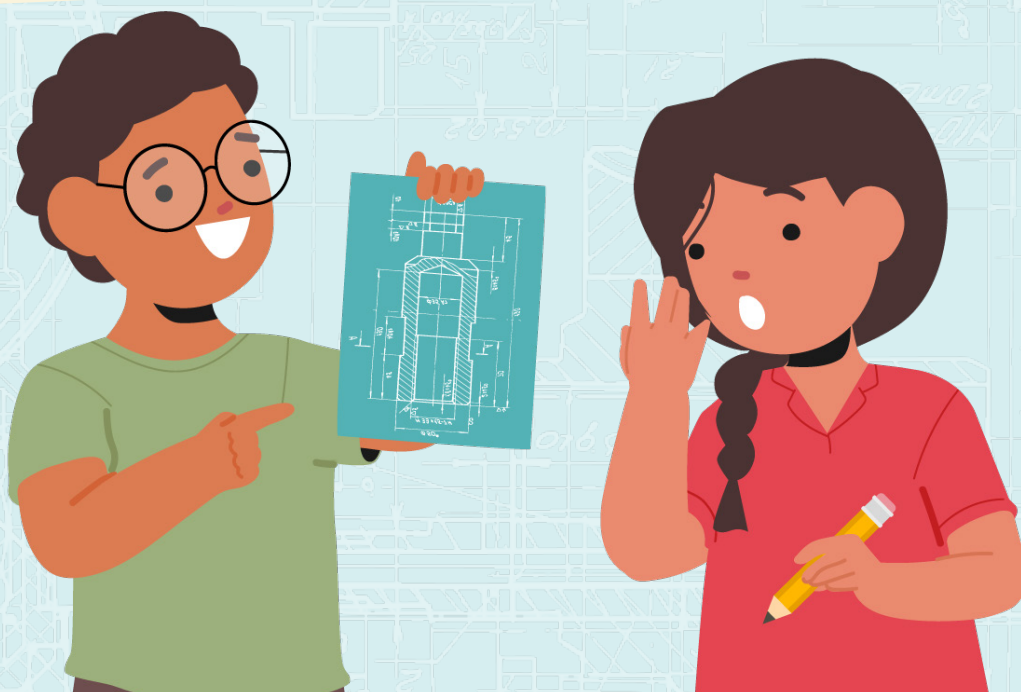
Step 2: Build your tower!

Step 3: Using the electric fan, simulate hurricane winds to test the stability of your design.

- List any design changes under "Design Modifications."
- After testing, record all problems and possible solutions before making the necessary changes to your tower's design.
- Repeat this process until you achieve your goals.

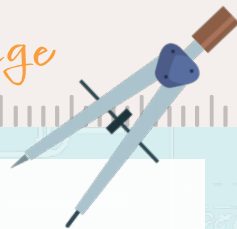
Design Challenge:

Modify your existing typhoon tower to reach new heights while maintaining its stability during a simulated hurricane.



24"

TYPHOON TOWER Design Challenge



Materials List:

Design Sketch:

	Design Modifications	Problems We Noticed	Possible Solutions
Test 1			
Test 2			
Test 3			

30" TYPHOON TOWER Design Challenge

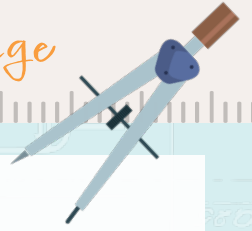


Materials List:

Design Sketch:

	Design Modifications	Problems We Noticed	Possible Solutions
Test 1			
Test 2			
Test 3			

36" TYPHOON TOWER Design Challenge



Materials List:

Design Sketch:

	Design Modifications	Problems We Noticed	Possible Solutions
Test 1			
Test 2			
Test 3			

TYPHOON TOWER

Design Challenge



NOTES:



PCS Edventures
11915 W Executive Drive
Suite #101
Boise, ID 83713

Email: sales@edventures.com
Phone: (800) 429-3110
Web: edventures.com

