

SHAKE, RATTLE, AND ROLL!

INTRODUCTION:

Scientists have studied the effects of earthquakes on structures, such as buildings, bridges, and roads. Based on their observations, architects and engineers have designed features that enhance a structure's ability to withstand the effects of earthquakes. With your team, try building your own structure to see if you can discover some of the features that minimize the effects on a building when the earth shakes.

CHALLENGE:

Design a tower that can hold a Ping-Pong ball at least 6 inches off the table while withstanding earthquake seismic waves. The tower that holds the Ping-Pong ball for 5 seconds at the highest seismic level wins!

MATERIALS:

- 10 index cards
- 10 drinking straws
- 1 standard sheet of printer paper
- 10 paper clips
- 10" Masking tape
- 1 Ping-Pong ball



BRAINSTORM IDEAS:

Idea #1	Idea #2	Idea #3