

Science Gr2 – Lesson 2 – What Makes a Strong Building?

Curriculum: Science; Applied Design Skills and Technology

Learning Goals:

- Design, test and rebuild a structure
- Problem-solving and perseverance are qualities in scientists and engineers

Materials:

- Paper cups
- Piece of paper to hold the paper cups

Activity:

Now that you have had some experience in building strong bridges, let's think about buildings. There are many tall buildings in our city. Metrotown has lots.

How do engineers design a strong building?



Make Something:

Put your creative engineering skills to work.

Place a piece of paper on the table.

Use the cups and stack them as high as they will go without falling over.

Now gently put your hands on the piece of paper and give it a wiggle back and forth. This simulates the ground shaking.

See if you can come up with a design that will house a building that may be 4 cups high. Test the stability of the building by wiggling the piece of paper back and forth. If it falls, go back to the drawing board and try another design.

Make sure you take a picture of your end result.