

Goal: Build the highest tower you can out of recycled materials

Grades: K–6+

Minimum number of participants: 1

Suggested grouping: divide into pairs

Time: 20-60 minutes

Math: 3-D geometry; measurement; spatial sense

Materials:

recycled yogurt containers of different sizes, small boxes, or other objects that can be stacked: enough for each child or pair to build tall towers

Prerequisites: none

Books about blocks and towers:

Block City. Stevenson, Robert Louis (Simon & Schuster, 2005).

The Man Who Walked Between the Towers. Gerstein, Mordechai. (Roaring Brook Press, 2003).

Before beginning

Cut out an award (p. 2) for each tower or child.

1 How can you make a tall tower?

Has anyone stacked blocks up to make a tower? How high was it? How did you make sure it didn't topple over?

Talk About...

Explain that everyone will build a tower as high as they can. Everyone will have different materials, so you don't need to compare your tower with others.

Distribute building materials.

2 Build!

After a few minutes, call the group together to share ideas:

Which shapes and sizes make a good tower base? Which work well in the middle?

I used the biggest box at the bottom to make a strong base.



Talk About...

Children keep building until about 5 minutes remain.

3 Tell about your tower

Each child or pair wins an award on their turn. Awards should be related to size or shape, for instance, most triangles, widest tower, or tower closest to 5 feet high. Decide on awards together.

Variations

One block at a time (easier). Gather a group. Predict how tall a tower you'll make if each person contributes one block. Then try it and see.

Tall as You (harder). Build a tower as close as possible to your own height.


Tabletop towers (same as main activity). If floor space is tight, build towers on a table. Children keep their feet on the floor when they build.

Building Achievement Award

Outstanding Construction Feature

Awarded to Engineer(s)

On this day _____ in the year of _____




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