

Blowing Off **S.T.E.A.M.** The **RECYCLED TOWER**



Your Mission:

- Gather as many recyclable materials as you can find (empty food boxes, cans, cartons, containers, and paper product rolls - NO GLASS ITEMS SHOULD BE USED)
- Using the materials, **build** a tower as high as you can.
- This can be an individual or a team project.

Key Questions:

- How can I **design** the base to ensure stability?
- Are certain materials sturdier than others?
- How can I **adjust** items to make the tower stronger and higher?

Science - Technology - Engineering - Art - Math

How to Measure the Height of Your Tower:

Calculate your tower's total number of levels. A level is determined by EACH material placed one on top of another. Therefore, if you have an egg carton on top of a cereal box, this would be two levels. Next, **measure** the total height of your finished tower in inches or centimeters.

The Formula:

Number of levels + Number of inches/centimeter high = Total Score

For example, your tower consists of eight stacked materials and measures 30 inches high.

8 levels high + 30 inches = 38. Your total score would be 38.

| Attempts | Number of Levels | Inches High | Total Score |
|----------|------------------|-------------|-------------|
| 1 | | | |
| 2 | | | |
| 3 | | | |



Recycled Tower