

CONSTRUCTIONEERING

OUTREACH PRE-VISIT PAGE (GRADES K-2) 60 minutes

Arizona Science Center will be arriving no later than 15 minutes before the start of your program(s). **Constructioneering** is intended to be a hands-on introductory engineering and construction program that covers:

- Different geometric shapes and materials are found within a building
- The total weight of a building must be supported and balanced to prevent collapse
- As a structure's height and/or design changes, the center of mass changes
- All structures are always either in tension or in compression

PROGRAM NEEDS

- Class teacher/instructor must remain in room for duration of program
- A very large room similar to a gym cleared of tables and chairs
- Limited to 30 participants who will break into groups of 3 students per group

SCIENCE STANDARDS

Kindergarten: S5C1PO1: Identify the following observable properties of objects using the senses: shape, texture, size, color.

S5C1PO2: Compare objects by the following observable properties: size, color, type of material.

S5C2PO1: Describe spatial relationships (i.e., above, below, next to, left, right, middle, center) of objects.

