

3-2-1 Blastoff! Propulsion and Gravity

OUTREACH PRE-VISIT PAGE (PreK Ages 3-5) 45 minutes

Arizona Science Center will be arriving no later than 15 minutes before the start of your program(s). **3-2-1 Blastoff!** is intended to be a hands-on introductory program that explores the different parts of a soda bottle rocket by having the children build and then launch bottle rockets.

PROGRAM NEEDS

- Two adult helpers
- **The Arizona Science Center's instructor is a guest in your classroom. The teacher MUST remain in room for duration of program for liability reasons. We cannot be responsible for your students.**
- One instructor table at front of room
- Water source readily available with the capacity to fill up 2 liter bottles (i.e. a deep sink)
- Outdoor location for launch must be unoccupied by other groups, free from overhanging trees, power lines, etc. and a minimum of 50 ft. x 100 ft.
- Limited to 25 participants who will be split into smaller groups of 3 or 4 students per group
- If multiple programs are scheduled at your location, it is ideal that the instructor set up in one room and participants be brought in; otherwise allow 15 minutes between programs

Before the Program Day (Preparation Activities)

- Investigate the shapes of airplanes and space ships.
- Build various paper airplanes and test out how they fly

Arizona Early Learning Standards

Science S1C1-C4: Learns through the Scientific Process

Language and Literacy S1C1-C2: Builds vocabulary and understanding through a literacy engagement activity

Physical Development S1C1-C2: Gross and fine motor development



