



## **Ready, Set, Rockets - Elementary Option**

"We are launching in...3...2...1..." Who wouldn't like to create their own custom rocket and launch it over 200 feet in the air? Choose from over 15 unique rocket designs. Rockets are crafted from color-printed cardstock paper, complete with rocket fins and printed "flames" shooting from the base. Outside, students launch their handmade rockets 200 feet in the sky! Detailed instructions for launching apparatus provided. Students choose the direction and pitch of launch using a telescoping arm for maximizing height or distance...their choice!

You will need:

- "Ready, Set, Rocket" Designs Printed on Cardstock
- Printing Cardstock
- Clear Packing Tape and Scotch Tape
- 18" Long and 1/2" Diameter PVC Pipe (1 per child in each rotation)\*\*\*
- Scissors (1 per child)
- PVC Compressed Air Rocket Launcher +++
- Air Compressor (strong enough to use in roofing)

\*\*\* PVC are pipes used for building only and can be reused with each group

+++ Simple building instructions included!!

## **Rocket Project Tips:**

Building:

1. Important! Listen to all of the instructions for each step prior to starting that step.
2. Purchase quality packing tape. The higher the quality of tape, the smoother the construction process.
3. Scissors are the limiting factor. Make sure you have enough! Have one per child in each rotation.
4. Place all components on the tables ready for kids to begin working as soon as the video starts!
5. Make sure that you have a dedicated technology helper to push play and pause on the videos.
6. Do not wait for every student to finish each step completely. Start the next step of the video when 85% of the groups are ready to move on. Be sure to have adults help slower students.

Launching:

1. Build and test your air pressure, rocket launcher well in advance of the big week!
2. Consider building multiple launchers to make the rocket shooting portion go smoothly. The recommended ratio is one rocket launcher for every 20 students.
3. Have several "rocket doctors" ready and prepared at the time of launching. Come equipped with extra tape, scissors, extra cardstock paper, and a PVC pipe ready to fix any blowouts!
4. Create silly awards like shortest flight, the medical alert award for most visits to the rocket doctors, the longest flight, etc.

Quick version:

Short on time?

1. Pre-make rockets weeks ahead of time using volunteers.
2. Have kids pick a favorite design to launch and keep, as opposed to building themselves.