

## ROCKET SCIENCE: PROPULSION(K-2)

### The SCIENCE of PROPULSION:

To **propel** means to drive or push something in a direction.



**Jet propulsion** is used for many machines like rockets and airplanes.

**Squid** use water instead of air for jet propulsion.



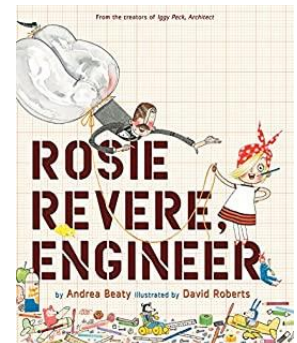
**READ:** Did you know there are astronauts reading stories from space?!

[Rosie Revere, Engineer](#), by Andrea Beaty, can be enjoyed from space as [read by astronaut Kate Rubins](#)! This story reminds all aspiring inventors to never give up, and success will follow.



### ACTIVITY: STOMP ROCKET

Materials: paper, tape, scissors, empty plastic bottle (any size), ½ inch PVC pipes, caps and joints OR rubber tubing – whatever you have!



### LAUNCHER INSTRUCTIONS

1. Assemble the pieces of PVC to make a “t” shape.
2. Keep one end open for the bottle, and the other end open for the rocket.
3. Put caps over the side arms (this keeps air from escaping!)

### ROCKET INSTRUCTIONS

1. Roll a tube of paper around the pipe and tape it (loose is better).
2. Cut a semi-circle out of paper and make a cone to go on top of your rocket. Tape it in place.

**TIP:** It is easier to make the top of your rocket flat instead of pointed.

3. Cut out triangles to make ‘fins’ and decorate your rocket (optional)

**What is happening?** The air in the bottle is “fuel” for the rocket. Stomping on the bottle forces the air through the launcher and pushes the rocket up!

For step-by-step instructions, watch the video at: [Stomp Rocket STEM Activity](#)

*This at-home educational activity is from the Literacy Coalition of Palm Beach County's literacy-based Stories & STEM program.*

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*Having fun? Send pictures or video links of you and your Stories & STEM projects to [csharkey@literacypbc.org](mailto:csharkey@literacypbc.org)*

