

2020  
**STEM**  
DESIGN CHALLENGE

**S · T · O · M · P ·**  
**R · O · C · K · E · T ·**

Stomp rockets work because of air pressure. When you stomp on the bottle, the air inside is compressed. The compressed air escapes to an area of lower pressure down the pipe and into the body of the rocket. Because the rocket has a closed end and the air cannot escape, it pushes downwards against the pipe. This causes the rocket to fly off the launcher and into the air.

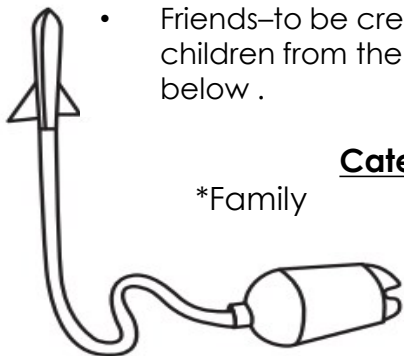
A stomp rocket has 2 parts: the launcher and the rocket, you will need to make both. The **launching system** can be made from anything you choose – but **MUST** be powered by the stomping of your foot onto a 2L plastic bottle. Your **rocket** can be made from anything you choose.

**Criteria:**

- You must stomp, with your foot, on an empty 2 litre bottle (eg soft drink) to create enough air pressure to launch your rocket.
- The **launching system** can be made from anything you choose – but **MUST** be powered by the stomping of your foot onto a 2L plastic bottle.
- Your **rocket** can be made from anything you choose.
- Be creative – and **be safe!**

**Who can take part?**

- Family –to be created by OLOL siblings.
- Friends–to be created by a group of children from the year levels indicated below .



**Categories:**

\*Family

\* K-3

\*4-6

**Entry Form**

Pick up from  
Mrs Heelan



**Blast Off!**

Thursday 5<sup>th</sup>  
November  
From 2pm  
OLOL Oval