

## Prek Leap High School

### Grade 7 Science

#### Lesson Plan: Build your own Rocket

#### Lesson Objectives:

Demonstrate the rapid expansion of gases on heating to generate forward propulsion

#### Equipment:

- 10 metres of string
- Plastic bottle
- Masking tape
- Taper
- Lighter
- Pipette
- Fuel such as paraffin

#### Method:

- Tie string suspended above classroom and exiting out of classroom window
- Loosely tape bottle to string with neck at the rear and so that it can move along string easily
- Use pipette to place fuel inside bottle and swirl fuel around bottle
- Light taper and apply to neck of bottle – stand back!

#### Notes:

- This demonstration to the class could be undertaken by a student who has been prepared beforehand
- This demonstration could be the winning entry in a class competition where small groups are asked to build their own rocket using simple materials that are (a) set by the teacher or (b) sourced by the students themselves