

## YEAR 9

### Independent learning to be completed during school closure

#### Science 22nd June - 3rd July

Over the course of a fortnight you would have 5 Science lessons. Please spend a minimum of 5 hours on the mini-project detailed below.

#### Forces

Watch this video: [https://www.youtube.com/watch?v=511rdc8K\\_TU](https://www.youtube.com/watch?v=511rdc8K_TU)

Task	Description
1	Complete the daily lesson here: <a href="https://www.bbc.co.uk/bitesize/articles/zk8kd6f">https://www.bbc.co.uk/bitesize/articles/zk8kd6f</a>
2	List all the forces that you have used in one day and where/ when you used them
3	Create a poster on Friction
4	Explain the difference between Mass and Weight
5	Create a poster showing the difference in Gravity between the Moon and Jupiter. Consider what is the gravity on the moon and Jupiter?, what is the effect of the change in gravity?
6	Find out what resultant force is
7	Design a high speed race car- you must include how to limit the air resistance and streamline the car. You must add labels and explanations for your design.