

Drag race



VICTORIAN BIOSCIENCE
EDUCATION CENTRE

Curriculum links

Year 7 and 8 Science

- Change to an object's motion is caused by unbalanced forces acting on the object; Earth's gravity pulls objects towards the centre of Earth (VCSSU103)
- Use scientific knowledge and findings from investigations to identify relationships, evaluate claims and draw conclusions (VCSIS111)
- Reflect on the method used to investigate a question or solve a problem, including evaluating the quality of the data collected, and identify improvements to the method (VCSIS112)

Learning intention and success criteria

Learning intention

- To conduct and evaluate a test to determine the effect of drag.

Success criteria

- Describe how drag force acts on a moving object
- Display and interpret data on a column graph.
- Make conclusions based on results.
- Identify different variables in the scientific method.
- Suggest improvements to a method.



Instructions to teachers

This activity has been developed for students to see the real world application of using the scientific method to test a hypothesis. Students will need access to basic equipment to conduct the experiment. Teaching resources, including YouTube clips have been included in the task.

The worksheet that students complete is a word document that has been designed using the developer function. This means that students can save the document to their device and are able to modify certain sections to record their answers. Although students are able to quickly adapt to this format, it is recommended that you briefly familiarise yourself with the document before you distribute it to students.

Answers have been provided to you to make feedback to students easier.

Instructions for students

1. Download the activity, save to your device and then select view and select edit document.
2. Complete the activity and resave to your device.
3. Submit the task and excel file to your teacher for feedback.

Resources you may like to provide with activity

- Using excel to construct a column graph: <https://www.youtube.com/watch?v=dwaoJYSiTZ0>
- Variables in the scientific method: <https://www.youtube.com/watch?v=iaewZmc4TYQ>