

# Graphique de Temps de Distance



VICTORIAN BIOSCIENCE  
EDUCATION CENTRE

## Curriculum links

### Year 10 Science

- The description and explanation of the motion of objects involves the interaction of forces and the exchange of energy and can be described and predicted using the laws of physics (VCSSU133)

### Year 10 Maths

- Substitute values into formulas to determine an unknown and re-arrange formulas to solve for a particular term (VCMNA333)
- Investigate and describe bivariate numerical data, including where the independent variable is time (VCMSP353)

## Learning intention and success criteria

### Learning intention

- To interpret data displayed on a distance time graph.

### Success criteria

- Describe how the gradient of the graph relates to velocity.
- Calculate the average speed between two points of the graph.
- Use data to infer events that could of occurred.

## Instructions to teachers

This activity has been developed for students to see the real world application of using graphs to display data. Students are required to interpret data and also substitute values into equations so it is recommended that teachers support these activities with suitable resources.

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 photos of your working out to your teacher for feedback.