

## Teacher Notes

### Curriculum Links

#### Mathematics Level 8

- Plot linear relationships on the Cartesian plane with and without the use of digital technologies ([VCMNA283](#)).
- Solve linear equations using algebraic and graphical techniques. Verify solutions by substitution ([VCMNA284](#)).

## Learning Intention and Success Criteria

#### Learning Intention

To understand how data correlations are used to predict an athletes performance.

#### Success Criteria

- ✓ Interpret secondary data set.
- ✓ Calculate the range of the data set.
- ✓ Use Microsoft Excel to create a scatter plot.
- ✓ Make a prediction using line of best fit.

## Equipment Required

Students will require:

- The digital 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. It is highly recommended that you attempt the task yourself before distributing to familiarise yourself with the activity.
- To begin students will need to open the document, press 'View' on the top heading bar, then 'Edit Document'. They are then encouraged to save it to their desktop (including their name) before they begin the task.
- If using the pdf all student will require in a pencil, ruler and calculator.

## Career Pathways

Big data, or large data sets, are analysed to explore patterns, trends and identify associations. Digital technology has enable the collecting of Big Data a reality, but being able to use technology to explore these data sets is a very important skill.

Jobs ranging from data scientists and programmers to accountants and analysts require the ability to analyse, graph and manipulate big data.