

## Curriculum Links

### Mathematics Level 6

Introduce the Cartesian coordinate system using all four quadrants (VCMMG230).

### Mathematics Level 7

Given coordinates, plot points on the Cartesian plane, and find coordinates for a given point (VCMNA255).

## Learning Intention and Success Criteria

### Learning Intention

To be able to use a Cartesian plane to plot coordinates.

### Success Criteria

- ✓ Successfully plot known 'defender' coordinates.
- ✓ Score a goal by plotting attackers around the known defenders.
- ✓ Show several different ways you can solve the problem.

## Equipment Required

Students will require:

- Soccer Pitch Cartesian Plane (these have been scaffolded so choose worksheet which best suit the students levels).
- Two different coloured textas or pencils.
- A ruler.

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.

- 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.

## Career Pathways

Being able to read maps is a vital skill for everyone! While digital technology is replacing many paper based maps, this skills is still very valuable for students to learn and develop.

Jobs ranging from scientists and mathematicians to farmers and real estate agents require the ability to read maps and plot on a Cartesian planes.