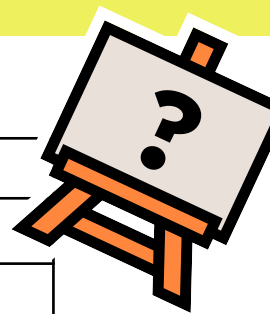


Mystery Drawing

Math - Geometry



Teacher's notes



Title	Mystery Drawing
Level	Cycle 3
Subject	Math – Geometry
Activity duration	Approx. 2 hours
Materials	<ul style="list-style-type: none">• Instructions sheet• Coordinates and Clues sheet*• My Drawing sheet• My Replicated Drawing sheet <p>* The Coordinates and Clues sheet can be printed on the back of the Instructions sheet.</p>
Objective	To practise identifying and plotting points on a four-quadrant Cartesian plane.
Activity summary	Using coordinates, students will attempt to replicate a classmate's drawing on a four-quadrant Cartesian plane.
Part 1 (approx. 45 minutes)	<ul style="list-style-type: none">• Hand out the Instructions and My Drawing sheets.• Read through the instructions as a class.• Students complete step 1: drawing an image on the Cartesian plane while following the instructions on the handout.<ul style="list-style-type: none">◦ The lines of their drawing must go through 10–15 points.◦ Each point should be marked with a black circle.◦ There must be at least one point in each of the four quadrants.
Part 2 (approx. 30 minutes)	<ul style="list-style-type: none">• Students complete step 2: writing the coordinates of each point on their drawing in the appropriate box.• Students complete step 3: writing down three clues.• Collect the My Drawing sheets.
Part 3 (approx. 45 minutes)	<ul style="list-style-type: none">• Students complete step 4: swapping coordinates with a classmate. You can also ask students to form teams of two and have each pair dictate their coordinates to each other.• Hand out the My Replicated Drawing sheet.• Students complete step 5: plotting the coordinates on the Cartesian plane.• Students complete step 6: reading the clues and attempting to replicate their partner's drawing.• Students complete step 7: comparing their drawing with the original and seeing how close—or how far off!—it is.

