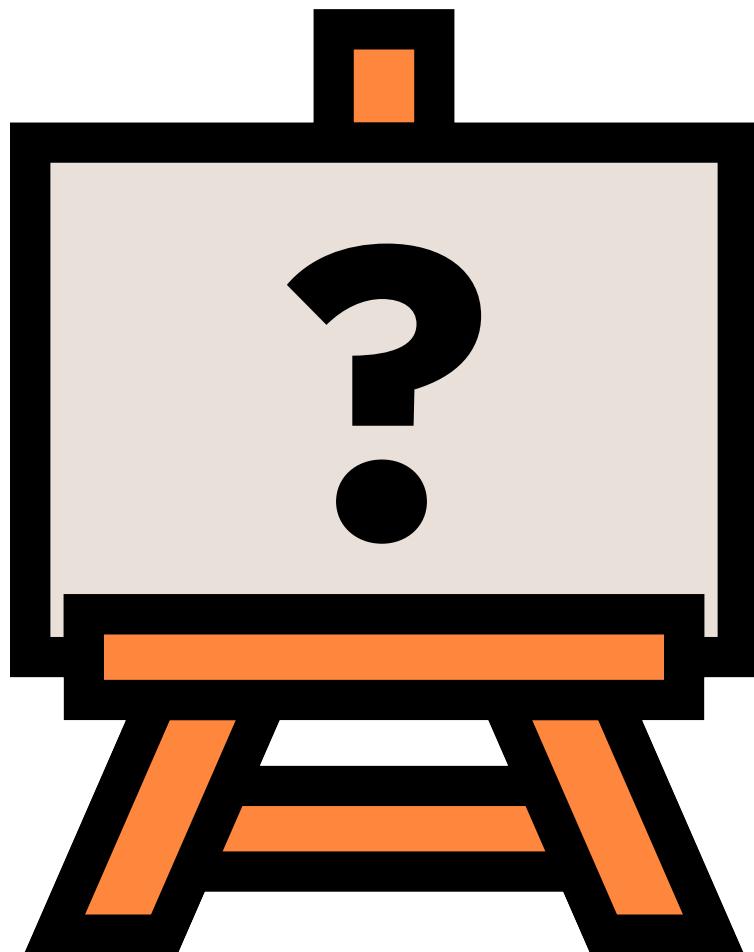


Mystery Drawing

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.

