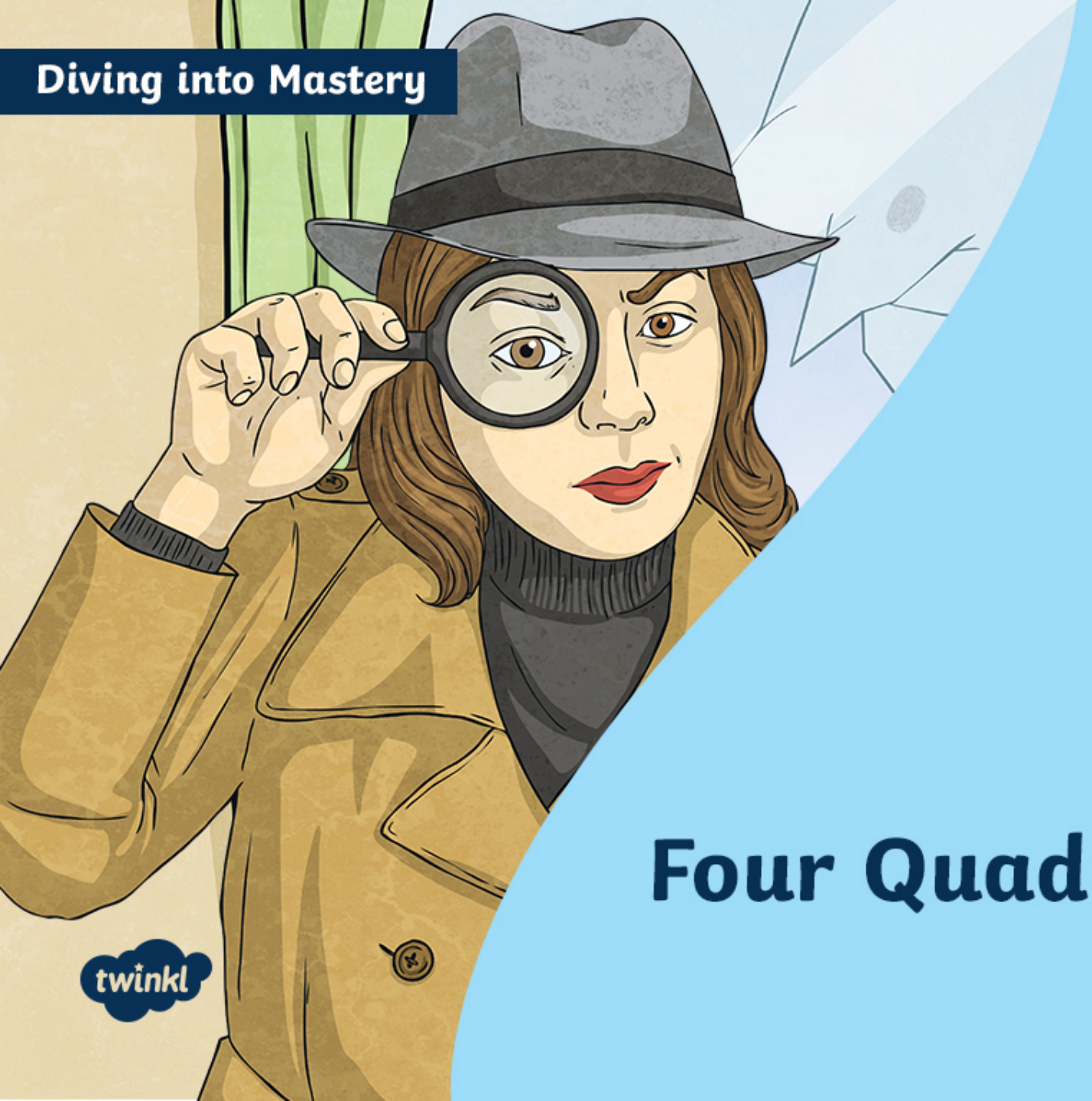
Diving into Mastery



Four Quadrants

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Aim

- Describe positions on the full coordinate grid (all four quadrants).

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Four Quadrants **Diving**

The vertices of the two polygons show where the secret agent found important evidence.

What are the coordinates of the vertices of the trapezium?

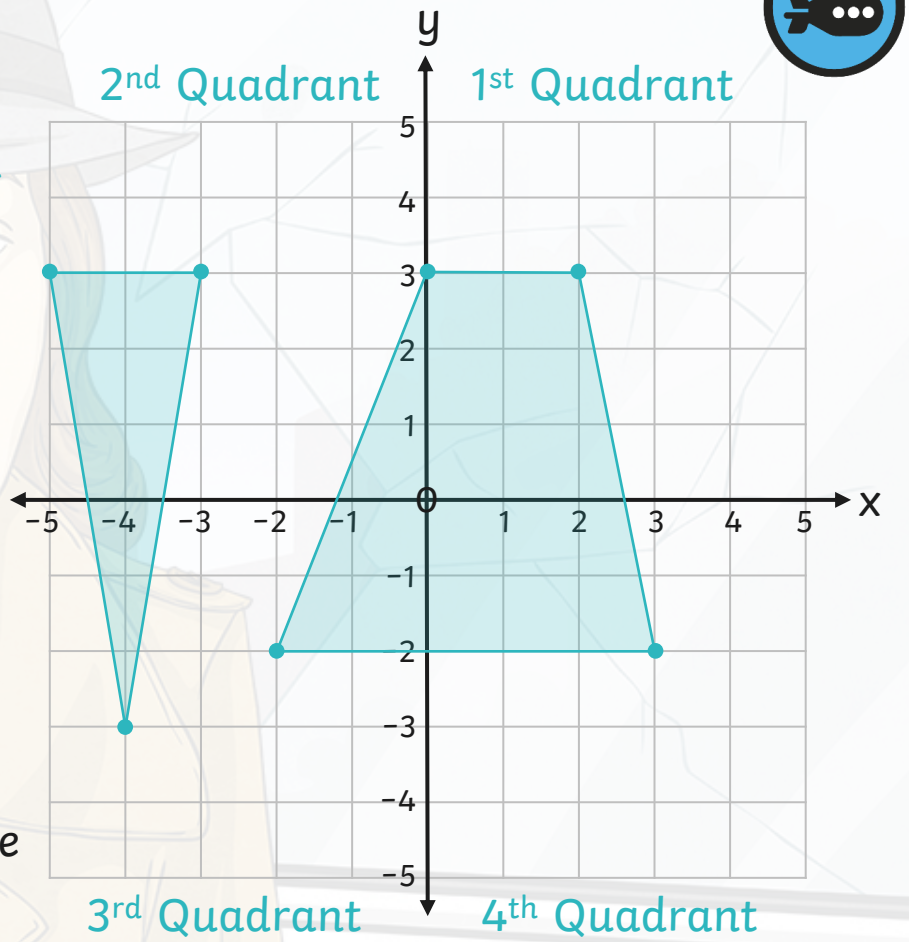
What are the coordinates of the vertices of the isosceles triangle?

Isosceles Triangle:
(−4,−3) (−5,3) (−3,3)

Trapezium
(−2,−2) (3,−2) (2,3) (0,3)

What do you notice about all of the coordinates in the third quadrant?

Points in the third quadrant always have a negative x-axis coordinate and a negative y-axis coordinate.



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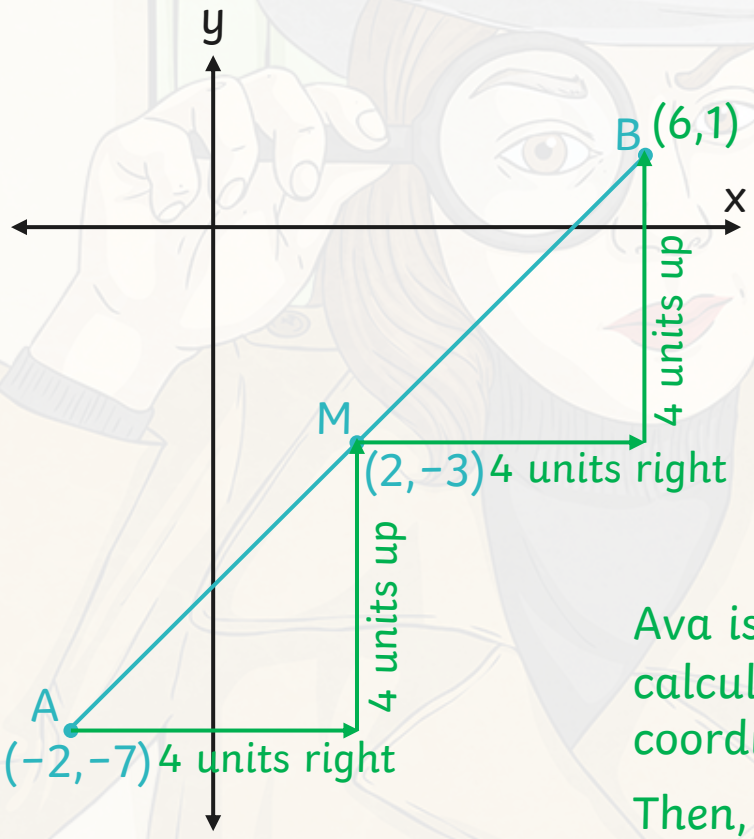
Four Quadrants | **Deeper**

Charlie, the secret agent, asked his partner Ava this question to establish where fingerprint B was found.



Ava

In order to find the coordinates of point B, I will just need to double the coordinates of the midpoint. The coordinates of B must be (4,−6).

Is Ava correct? Explain your reasoning.

Ava is incorrect. To find point B, she needs to calculate the difference between each x and y coordinate of point A and the midpoint M.

Then, she should add this difference on to each x and y coordinate of the midpoint.

The coordinates of B are (6,1).

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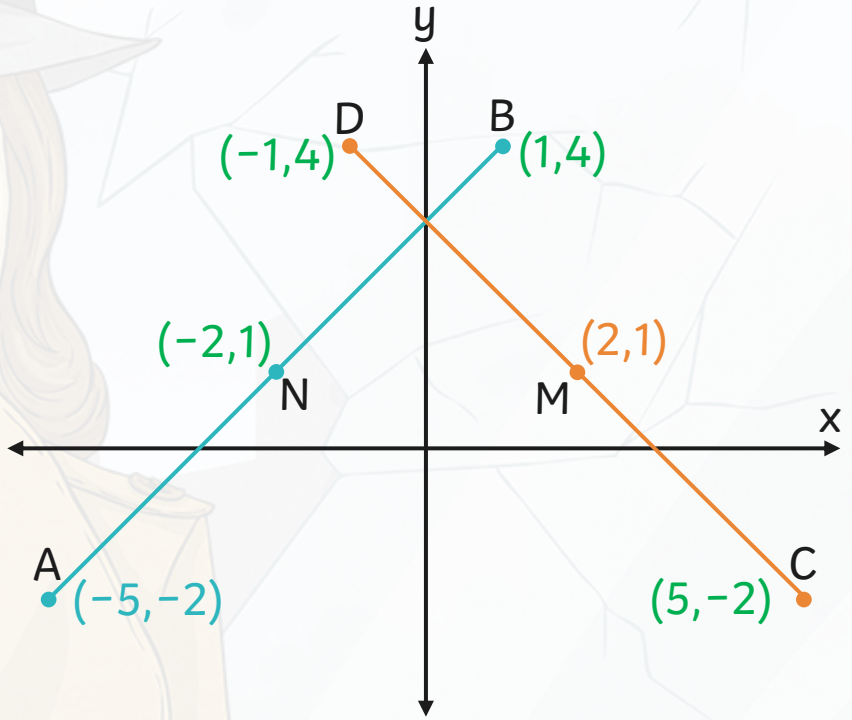
Four Quadrants | **Deepest**

Lines AB and CD are congruent.

M and N are the midpoints of each line, where important fingerprints were found.

Use the information on the coordinate grid to find the missing coordinates to show where the fingerprints were detected.



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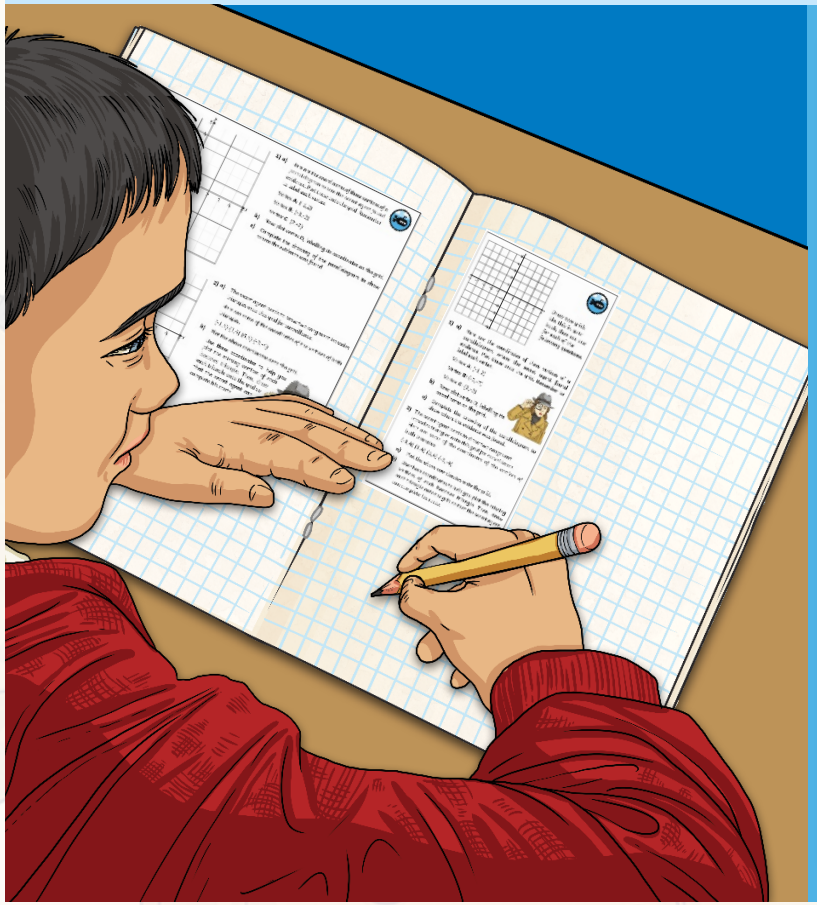
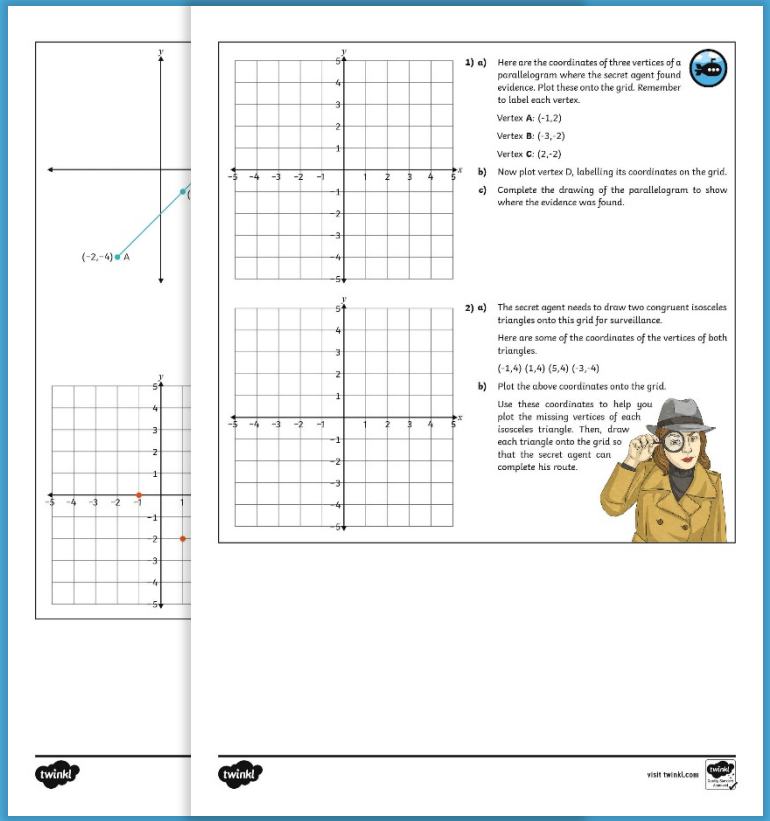
Four Quadrants

Dive in by completing your own activity!





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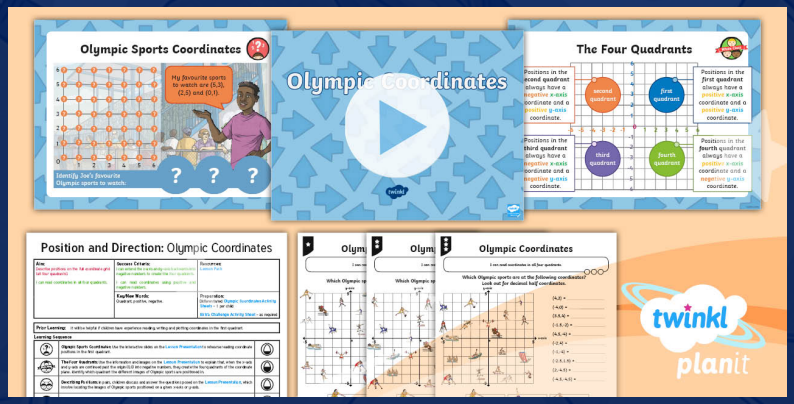
Need Planning to Complement this Resource?

National Curriculum Aim

Describe positions on the full coordinate grid (all four quadrants).

For more planning resources to support this aim, click here.



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