

Maths Mastery

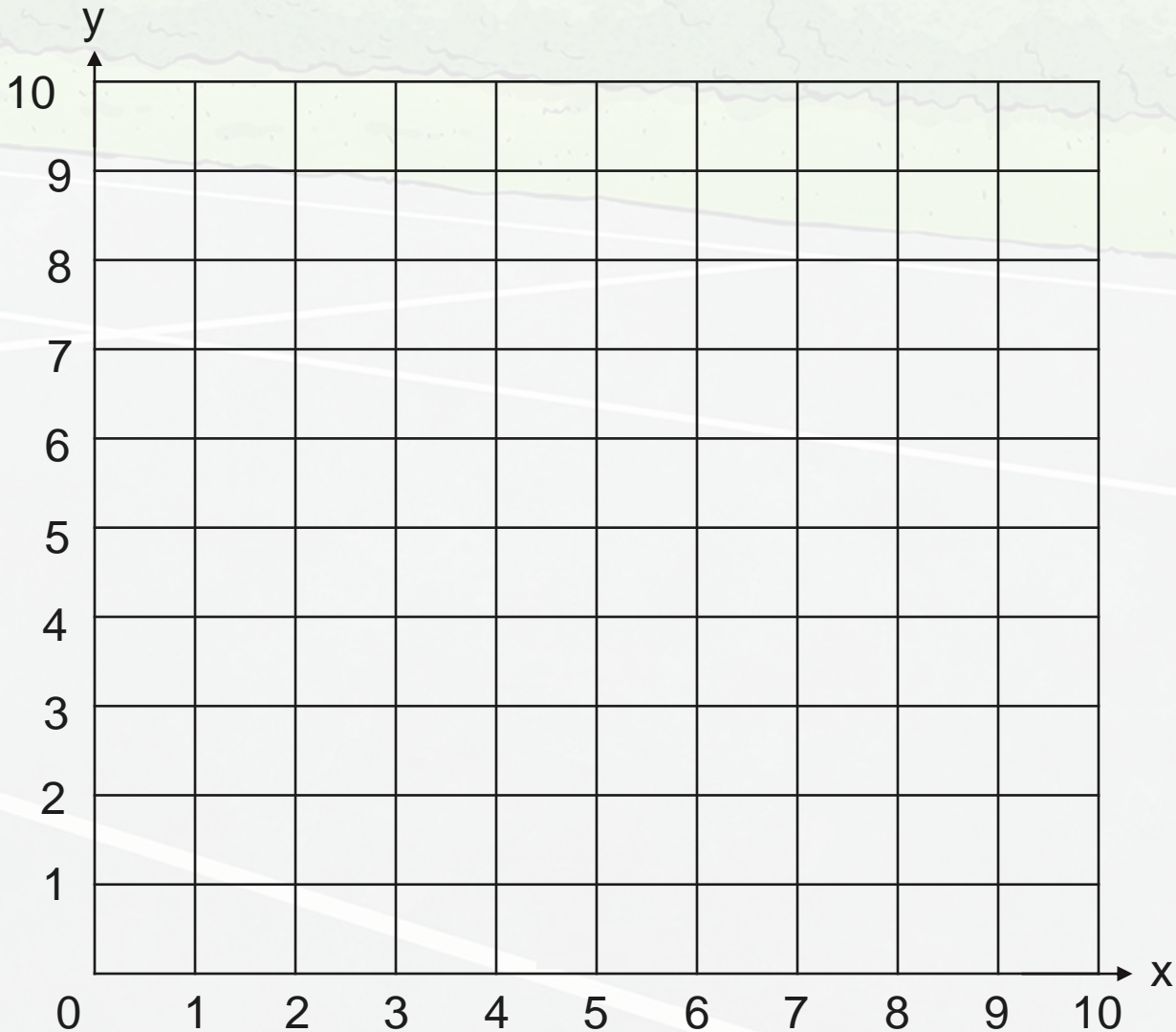
Coordinates

Maths



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Coordinates or Grid References



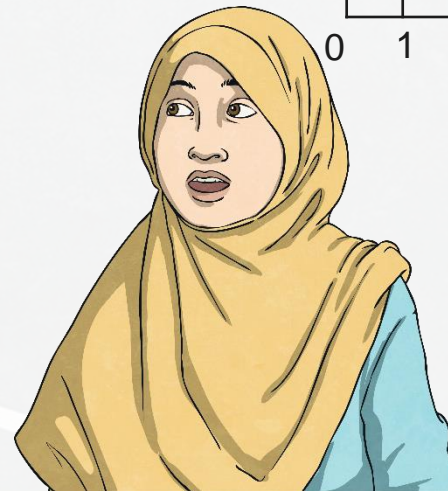
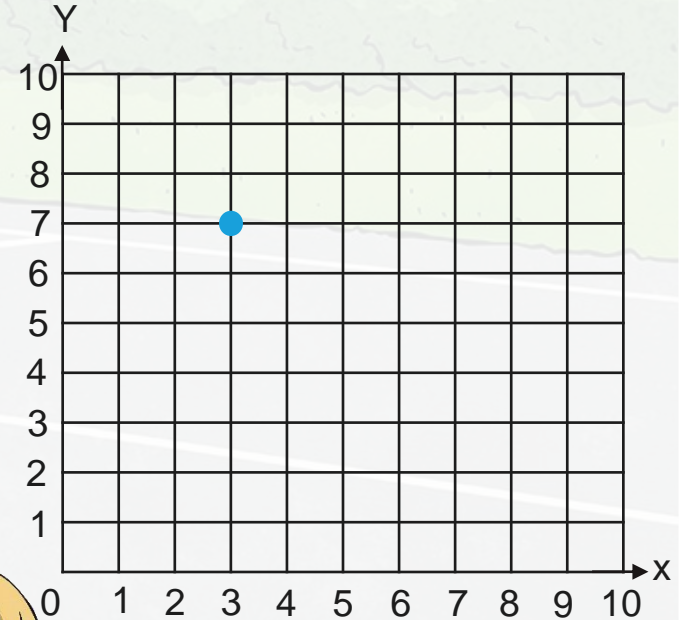
Coordinates

Here is a coordinates grid.

Fatima says the dot is at $(3, 7)$.

Alfie says the dot is at $(7, 3)$.

Discuss who is correct and why.



Coordinates

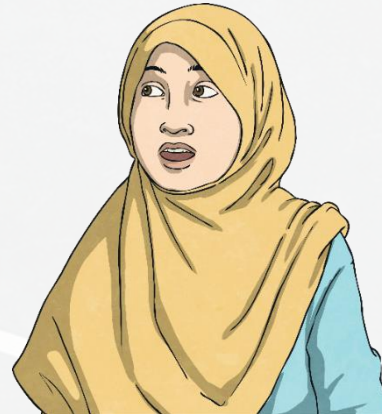
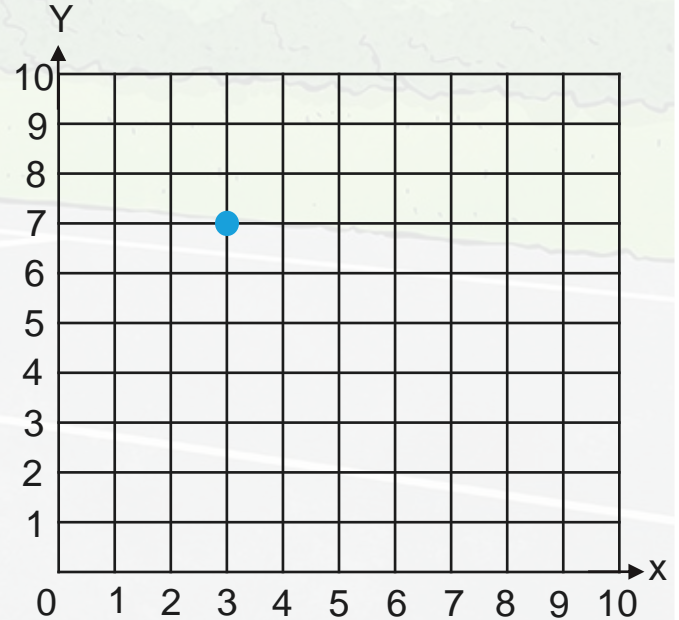
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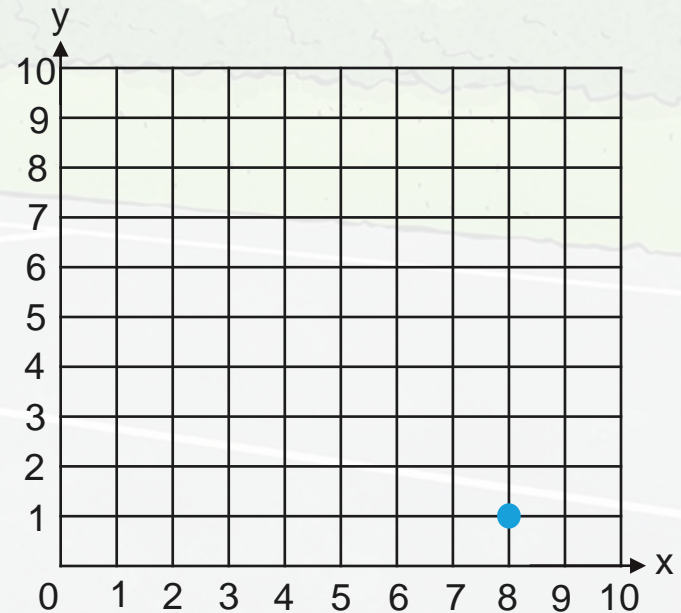
The **horizontal** grid reference comes first (**x** axis)
The **vertical** reference is second (**y** axis)



Using a Coordinates Grid

Fatima writes some instructions for using a coordinates grid. Can you spot any mistakes?

“Here is a numbered coordinates grid. If I want to mark the point $(8, 1)$, I count 8 squares up and 1 square across and shade the square.”

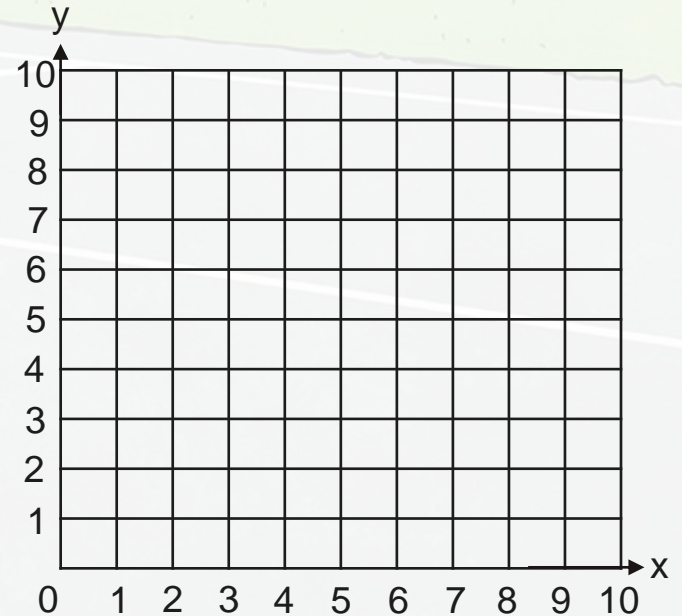
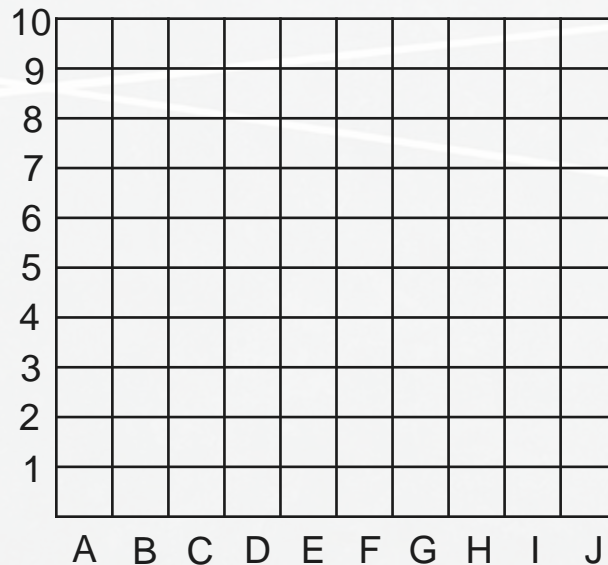
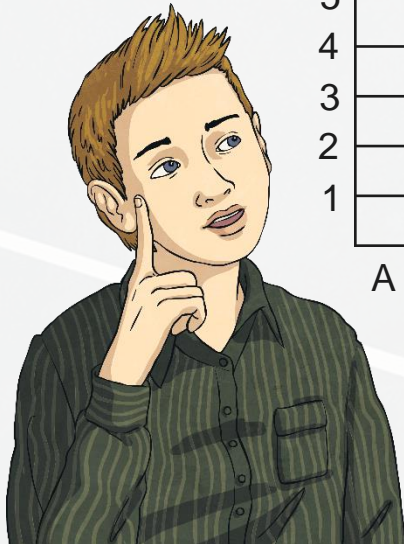


Can you improve Fatima's explanation? Talk about your ideas and then write your own explanation.

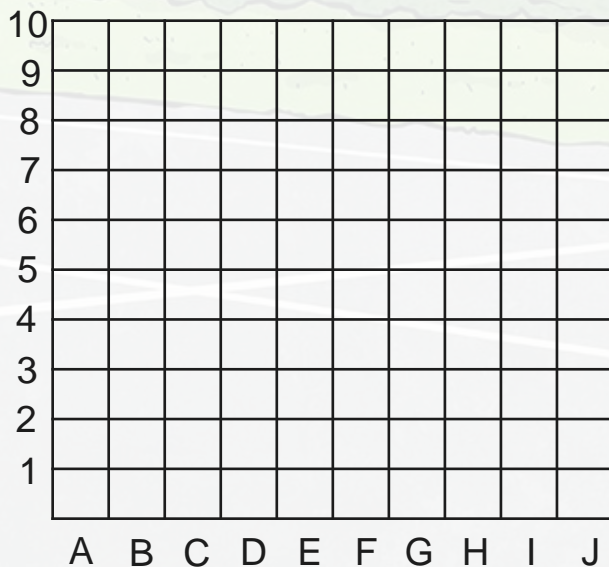


Spot the Difference

Alfie has 2 different coordinates grids. He wants to know what is different about the two grids. Can you spot the differences?



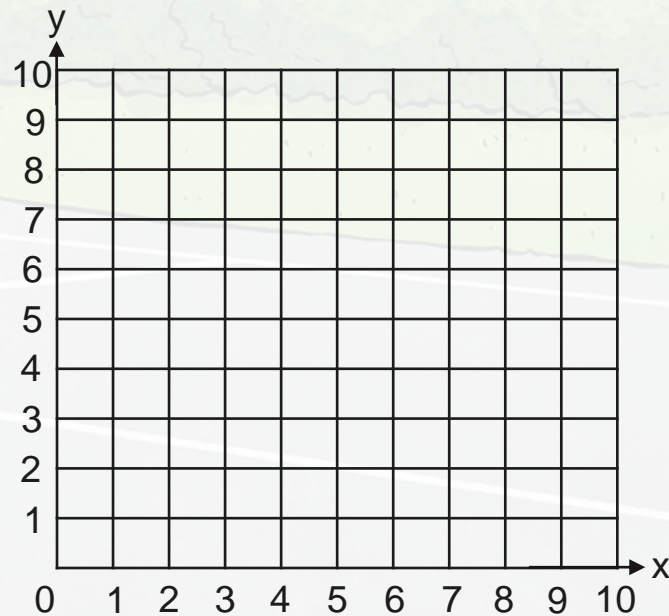
Spot the Difference Answers



Uses numbers on the vertical axis and letters on the horizontal axis.

The letters are placed in the middle of each square.

The axes are not labelled x and y and there are no arrows.



Uses numbers on both axes.

The numbers are placed by the lines of the grid.

The axes are labelled x and y and there are arrows pointing away from 0.

Your Tasks

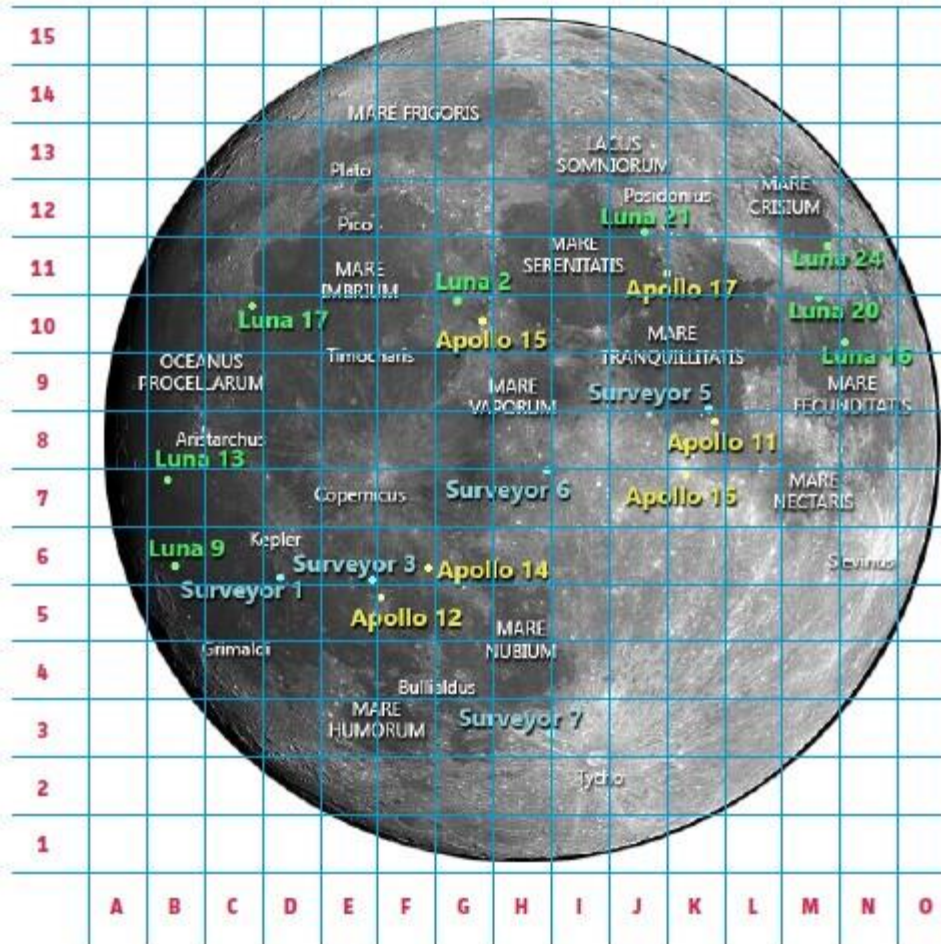
- Watch the video
<https://www.bbc.co.uk/bitesize/topics/zbtp34j/articles/z6hxrj6>
- Complete daily assignments
- Complete SHM 4 pg 96 and 97
- Under the Sea Coordinates Worksheet

Some games to try

<https://mathsframe.co.uk/en/resources/resource/469/Coordinates-Alien-Attack>

<https://www.studyladder.co.uk/games/activity/coordinates-space-theme-32874?backUrl=/games/studysheets/gb-mixed-years/theme-based-learning-the-solar-system-mathematics-activities-1588?q=coordinate>

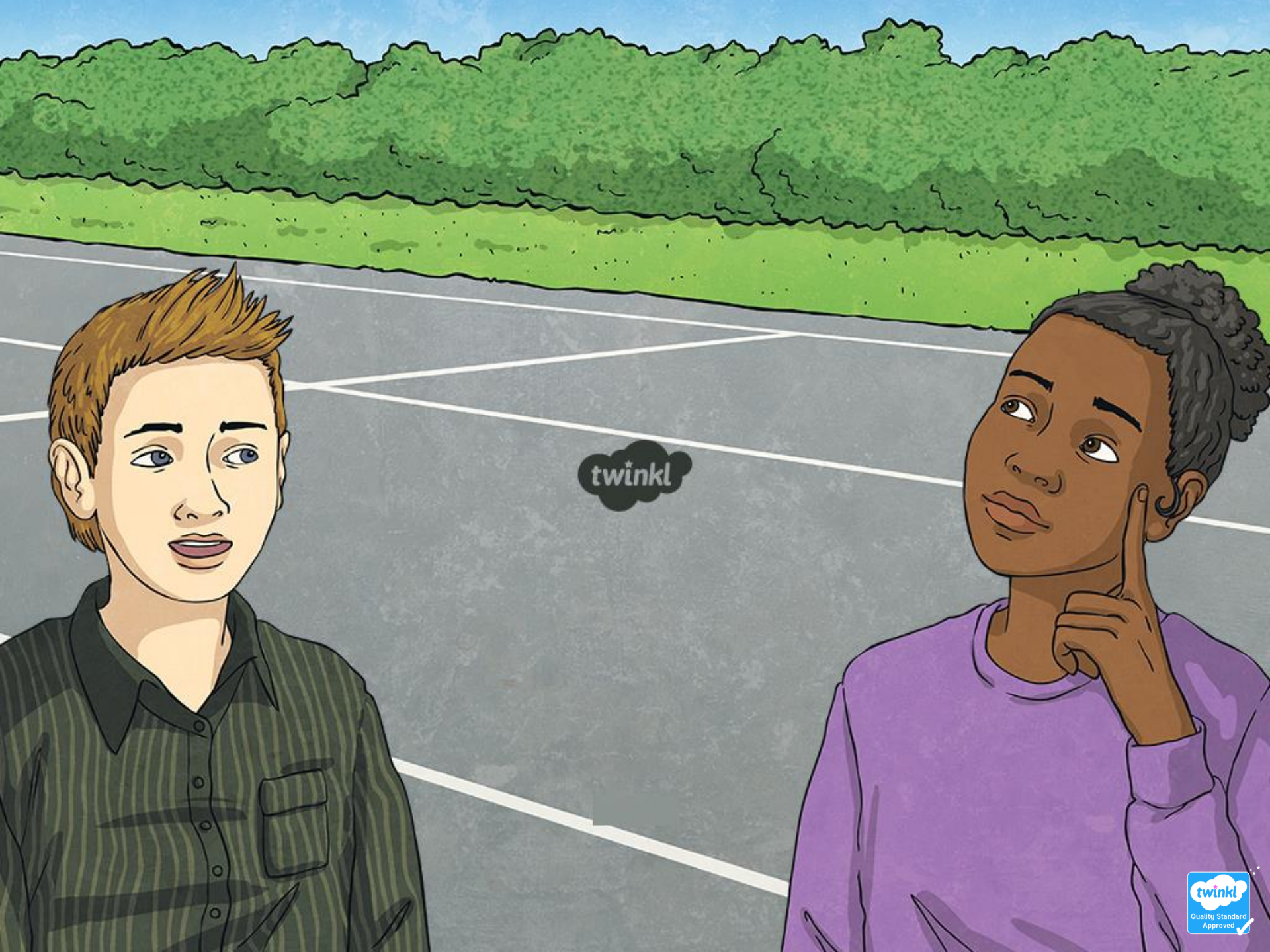
Additional Tasks



Can you find the coordinates of all of the Apollo Missions?

Could you make up your own questions to find points on the grid or to get directions to a new point?

Think of a way to teach a friend about coordinates outside.



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