

Constellation coordinates

Plot specified points and join them to make a 2-D shape



Challenges
2, 3

Use Resource 15: 9 x 9 coordinate grids. Plot and label these points to find the six stars in Constellation Hex.

You will need:

- Resource 15: 9 x 9 coordinate grids
- red pencil
- ruler

- | | | |
|-----------------|-----------------|-----------------|
| A (5, 9) | B (9, 9) | C (9, 5) |
| D (5, 0) | E (1, 1) | F (0, 5) |

Challenge
2

- a** Draw straight lines joining the stars in order: **A** to **B**, **B** to **C** and so on back to **A**.

b Name the 2-D shape you make.
- a** Draw two straight lines joining stars **A** to **C** and **B** to **E**.

b A black hole lies at the intersection of these lines. Write its coordinates as: **BH** (,)



- Use your red pencil to draw straight lines joining the stars:

a **A** → **C** → **E** → **A** **b** **B** → **D** → **F** → **B**

c Name the shape enclosed by the red lines.



- a** Find the intersection of the lines joining stars **A** to **D** and **F** to **C**.

b Move 3 squares left and 2 squares up. This is where a supernova lies.

c Write the coordinates of the supernova as: **S** (,)

Challenge
nge

- A comet is travelling in a straight line from star **D** to star **F**. What might its coordinates be?
- Investigate what happens to Constellation Hex when you double both coordinates of each star.

