What are Coordinates?

AEROSPACE BRISTOL

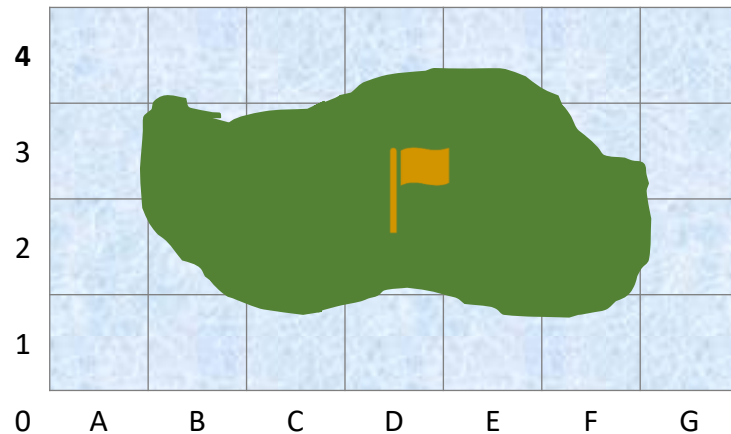**UWE Bristol** | University of the West of England

Coordinates determine positions on maps.

Coordinates are a set of numbers or numbers and letters together that show a position on a map. They can help you find a specific place or object that you are looking for.

D2

Find D on the horizontal row, then 2 on the left hand vertical column. The flag is positioned where the D and 2 meet.

Take a look at the map on the next page. Carefully plot the coordinates listed in the tables below and use a ruler to draw a line from one point to another to reveal a special shape!
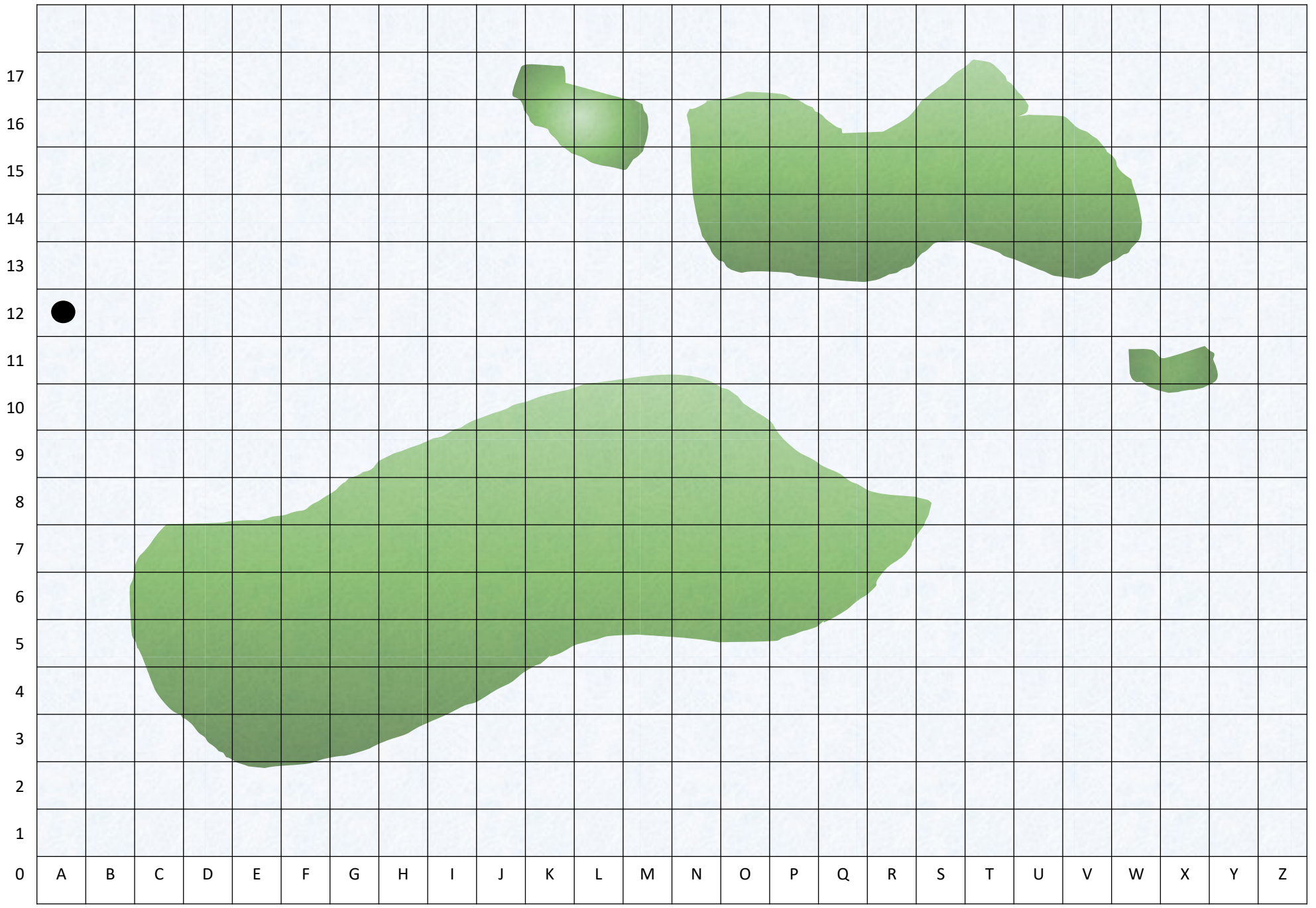
There are two shapes to plot

Shape 1			
1	A12	10	N12
2	B13	11	O9
3	F13	12	N9
4	J17	13	M11
5	M17	14	I11
6	I13	15	M7
7	M13	16	J7
8	N15	17	F11
9	O15	18	B11

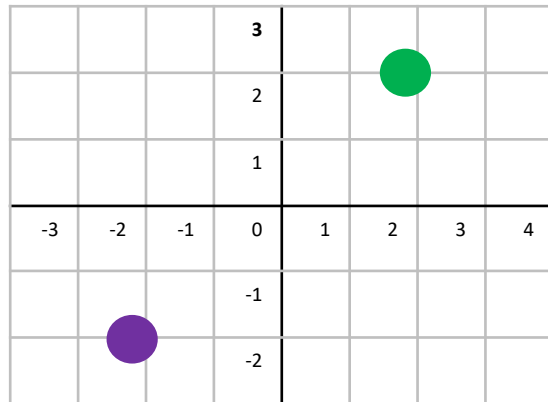| Shape 2			
1	M6	10	X6
2	N7	11	Y3
3	Q7	12	X3
4	S11	13	W5
5	V11	14	S5
6	S7	15	U1
7	W7	16	S1
8	X9	17	Q?5
9	Y9	18	N5

Create your own coordinate challenge

Add items to the map and give the coordinates for their location.

Coordinates also determine a position on a graph.

Points are marked by how far along they are on the x axis and how far up or down they are on the y axis.

| ● | (-1,-2) | | ● | (3,2) |

The first number indicates the point on the x axis
(the horizontal axis)

The second number indicates the point on the y axis
(the vertical axis)

Using the four quadrant grid on the next page, carefully plot these points, then once plotted use a ruler to draw a line connecting them.

Shape 1							
1	(-9,8)	13	(9,1)	25	(-5,-7)	37	(-10,3)
2	(1,7)	14	(9,-3)	26	(1,-7)	38	(-1,3)
3	(1,8)	15	(8,-4)	27	(2,-4)	39	(0,4)
4	(2,8)	16	(6,-4)	28	(-1,-4)	40	(1,4)
5	(2,7)	17	(7,-7)	29	(-3,-2)	41	(1,6)
6	(12,7)	18	(9,-7)	30	(-3,2)	42	((-9,6)
7	(12,6)	19	(10,-6)	31	(-10,2)	43	(-9,7)
8	(2,6)	20	(10,-5)	32	(-10,-2)		
9	(2,4)	21	(11,-5)	33	(-11,-2)		
10	(3,4)	22	(11,-6)	34	(-11,2)		
11	(4,3)	23	(10,-8)	35	(-14,5)		
12	(6,3)	24	(-5,-8)	36	(-13,6)		

Shape 2	
1	(4,2)
2	(7,1)
3	(8,0)
4	(8,-2)
5	(5,-2)
6	(4,0)
7	(4,2)

Shape 3	
1	(3,-4)
2	(5,-4)
3	(6,-7)
4	(2,-7)
5	(3,-4)

What will the shapes reveal?