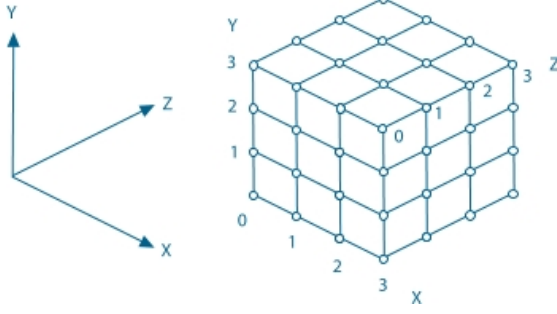


3D Coordinates Worksheet

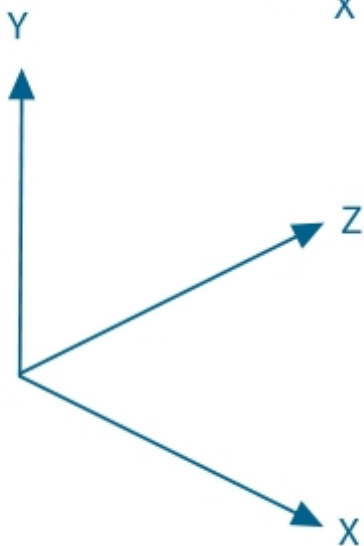
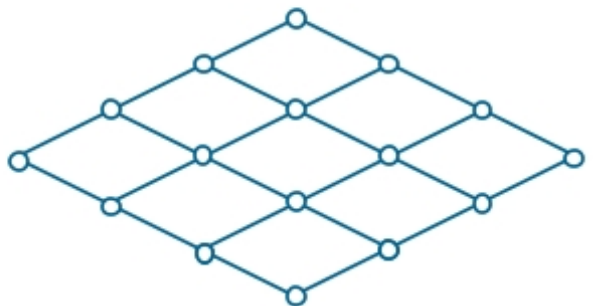
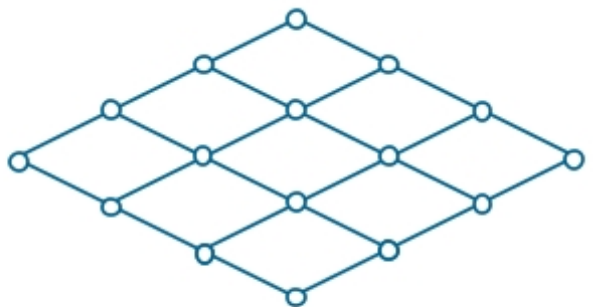
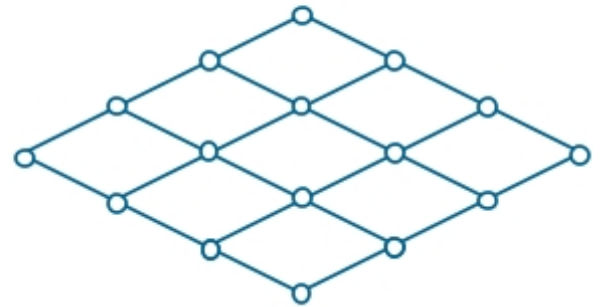
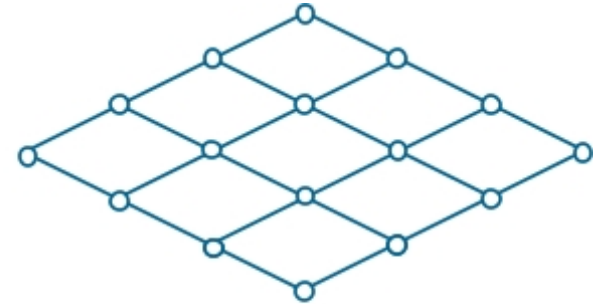
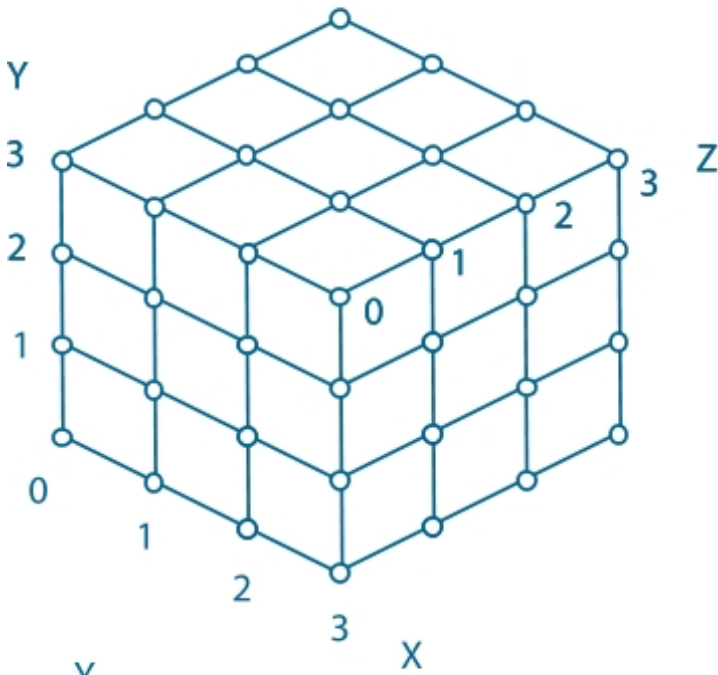
	<p>Use the clues to locate the position of the treasure within the 3D coordinate grid.</p> <p>The size of the grid is shown in the diagram</p>
<p>$x \text{ coordinate} + z \text{ coordinate} = y \text{ coordinate}$</p>	<p>The treasure is not to be found on any of the corners</p>
<p>Only one of the three coordinates is a square number</p>	<p>$x \text{ coordinate} > z \text{ coordinate}$</p>
<p>$z \text{ coordinate} < y \text{ coordinate}$</p>	<p>The answer contains exactly two prime numbers</p>

3D Coordinates

Try and solve this 3D coordinate mystery to locate the hidden treasure within a virtual three dimensional grid. Can your students use the clues provided to work out the correct 3D coordinate where the treasure lies?

Cut out and distribute the cards. If further scaffolding is required, support sheets are provided.

3D Coordinates Worksheet



x	y	z
0	0	0
0	0	1
0	0	2
0	0	3
0	1	0
0	1	1
0	1	2
0	1	3
0	2	0
0	2	1
0	2	2
0	2	3
0	3	0
0	3	1
0	3	2
0	3	3
1	0	0
1	0	1
1	0	2
1	0	3
1	1	0
1	1	1
1	1	2
1	1	3
1	2	0
1	2	1
1	2	2
1	2	3
1	3	0
1	3	1
1	3	2
1	3	3

x	y	z
2	0	0
2	0	1
2	0	2
2	0	3
2	1	0
2	1	1
2	1	2
2	1	3
2	2	0
2	2	1
2	2	2
2	2	3
2	3	0
2	3	1
2	3	2
2	3	3
3	0	0
3	0	1
3	0	2
3	0	3
3	1	0
3	1	1
3	1	2
3	1	3
3	2	0
3	2	1
3	2	2
3	2	3
3	3	0
3	3	1
3	3	2
3	3	3