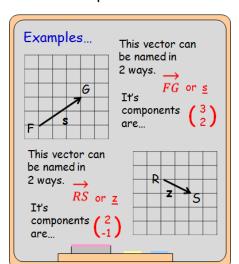
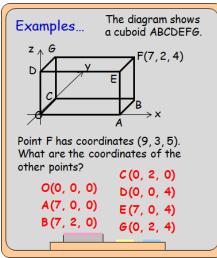
Outcome 2 - Working with 2D Vectors, 3D Coordinates & Vector Journeys

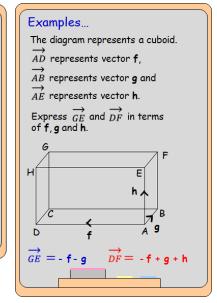
Bronze examples



Silver example

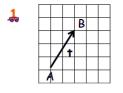


Gold example

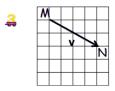


Bronze Questions

Name each of these vectors in 2 ways and write down their components.

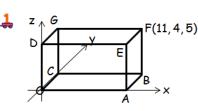








Silver Questions



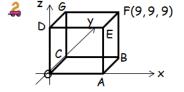
The diagram shows a cuboid ABCDEFG.

The diagram

shows a

ABCDEFG.

Point F has coordinates (11, 4, 5). What are the coordinates of the other points?



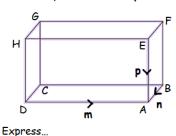
Point F has coordinates (9, 9, 9). What are the coordinates of the other points?

Gold Questions

The diagram below represents a cuboid.

 \overrightarrow{DA} represents vector \mathbf{m} , \overrightarrow{BA} represents vector \mathbf{n} and \overrightarrow{EA} represents vector \mathbf{p} .

ΑĤ



in terms of **m**, **n** and **p**.

СÉ

Bronze Answers

1.
$$\overrightarrow{AB} \stackrel{!}{\underline{t}} \begin{pmatrix} 2 \\ 3 \end{pmatrix}$$
 2. $\overrightarrow{TV} \stackrel{!}{\underline{b}} \begin{pmatrix} 5 \\ 0 \end{pmatrix}$

2.
$$\overrightarrow{TV} \stackrel{b}{=} \begin{pmatrix} 5 \\ 0 \end{pmatrix}$$

3.
$$\overrightarrow{MN} \overset{\vee}{\vee} \begin{pmatrix} 4 \\ -2 \end{pmatrix}$$
 4. $\overrightarrow{CD} \overset{\sqcup}{\vee} \begin{pmatrix} 2 \\ -3 \end{pmatrix}$

$$\overrightarrow{CD} = \begin{pmatrix} 2 \\ -3 \end{pmatrix}$$

Silver Answers

- 1. O(0, 0, 0), A(11, 0, 0), B(11, 4, 0), C(0, 4, 0) D(0, 0, 5), E(11, 0, 5), G(0, 4, 5)
- 2. O(0, 0, 0), A(9, 0, 0), B(9, 9, 0), C(0, 9, 0) D(0, 0, 9), E(9, 0, 9), G(0, 9, 9)

Gold Answers