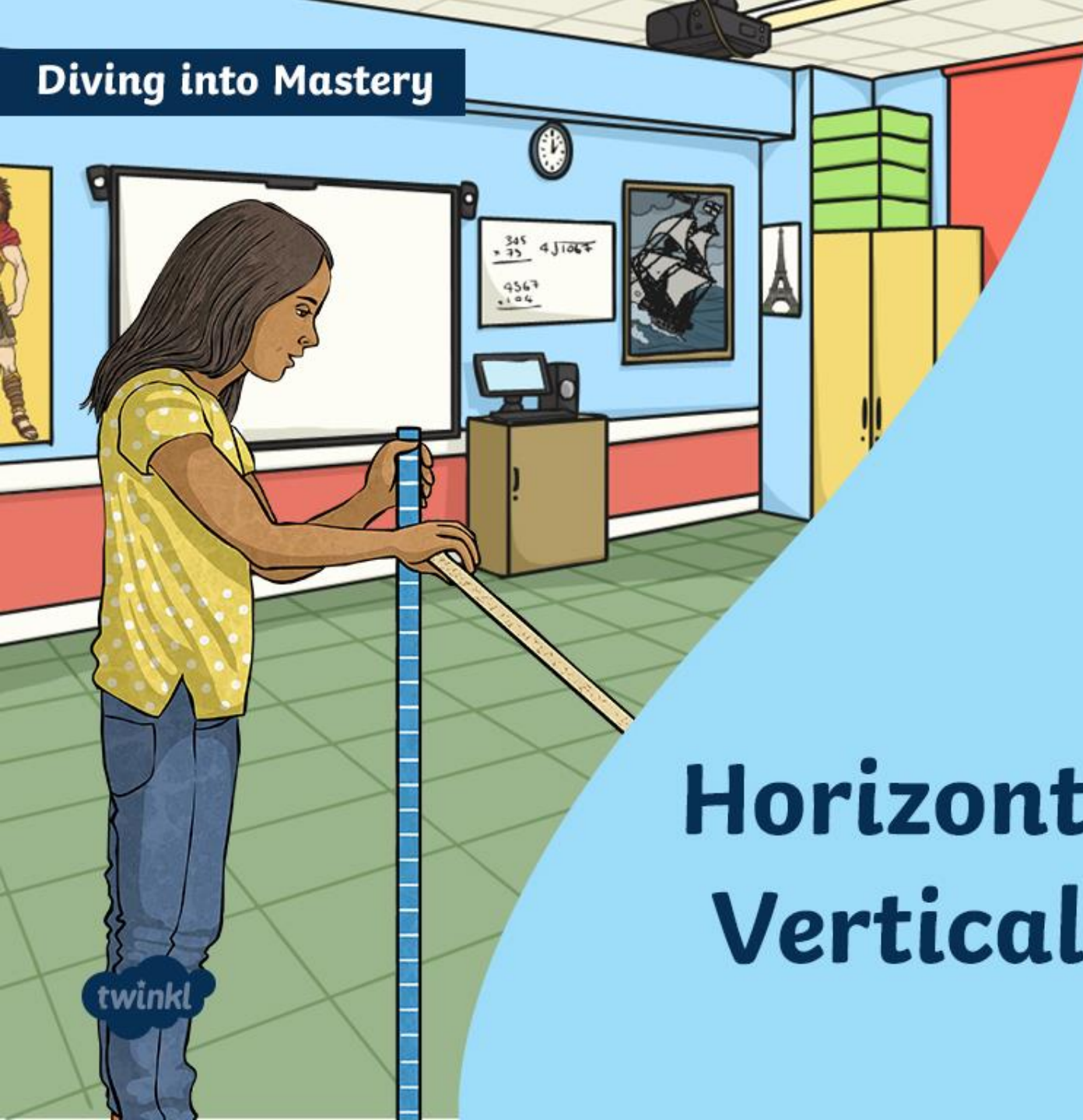


Diving into Mastery



Horizontal and Vertical Lines

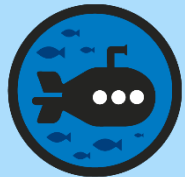
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Diving into Mastery Guidance for Educators

Each activity sheet is split into three sections, diving, deeper and deepest, which are represented by the following icons:



Diving



Deeper



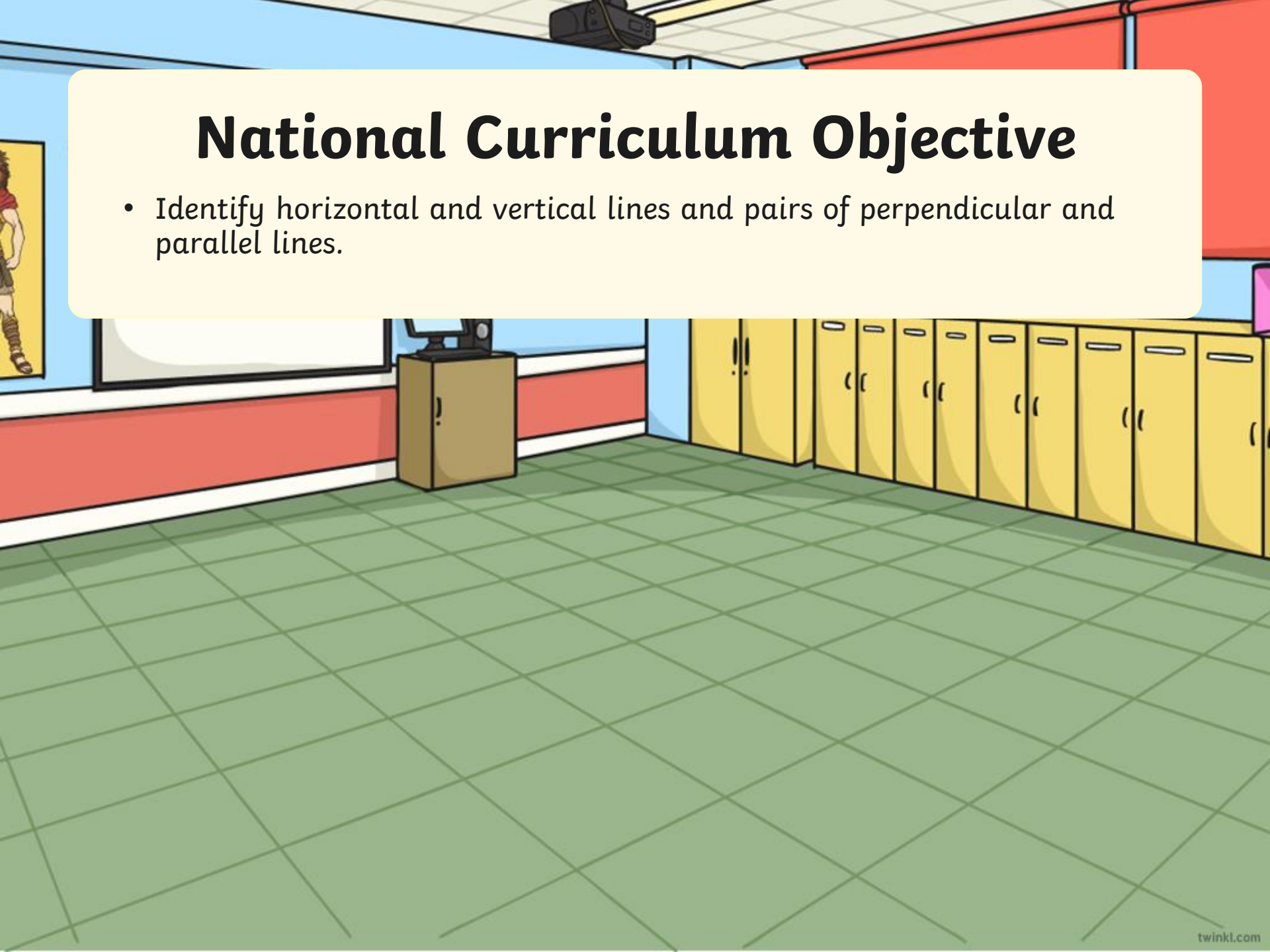
Deepest

These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.

National Curriculum Objective

- Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.



Horizontal and Vertical Lines

Diving



We can describe lines as horizontal or vertical.

A **horizontal** line runs across, from left to right (or right to left):

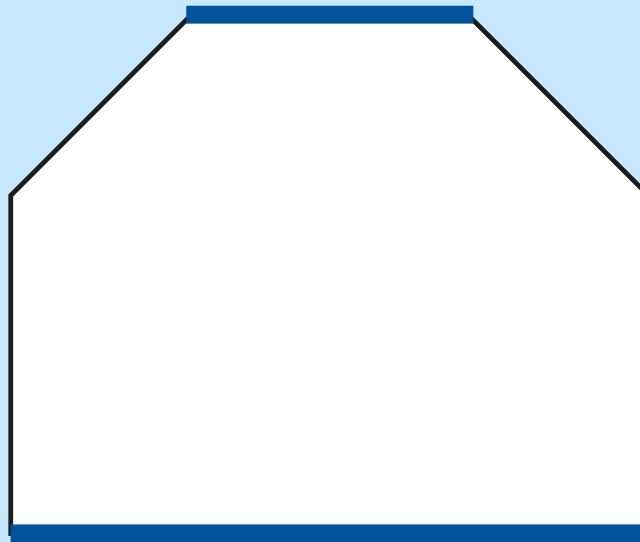


A **vertical** line runs up and down:



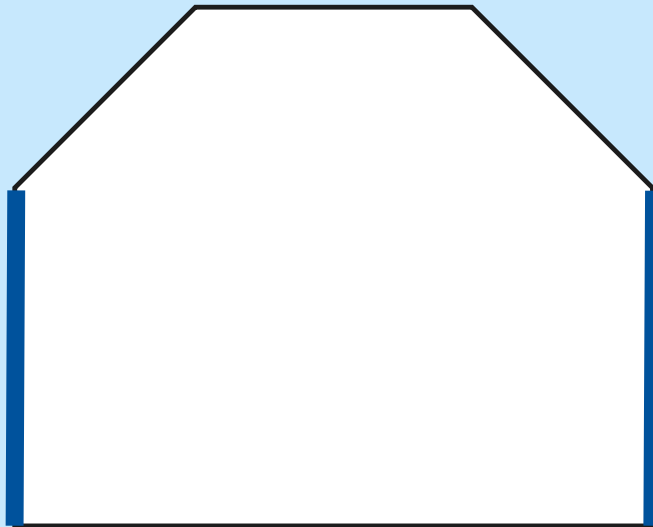


Look at this shape.
Where are the horizontal lines?





Where are the vertical lines?



Remember that some lines may not be either vertical or horizontal.



When we look at symmetry, we can talk about a **vertical line of symmetry**.

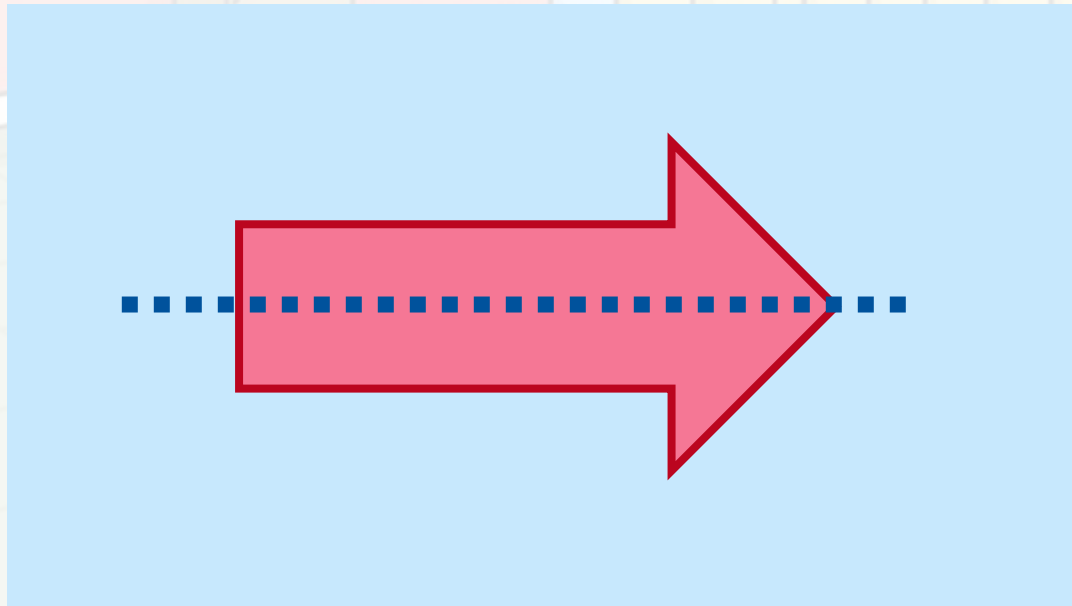
That means that the line of symmetry goes from top to bottom, like this butterfly:





When we look at symmetry, we can talk about a **horizontal line of symmetry**.

That means that the line of symmetry goes from side to side, like this arrow:



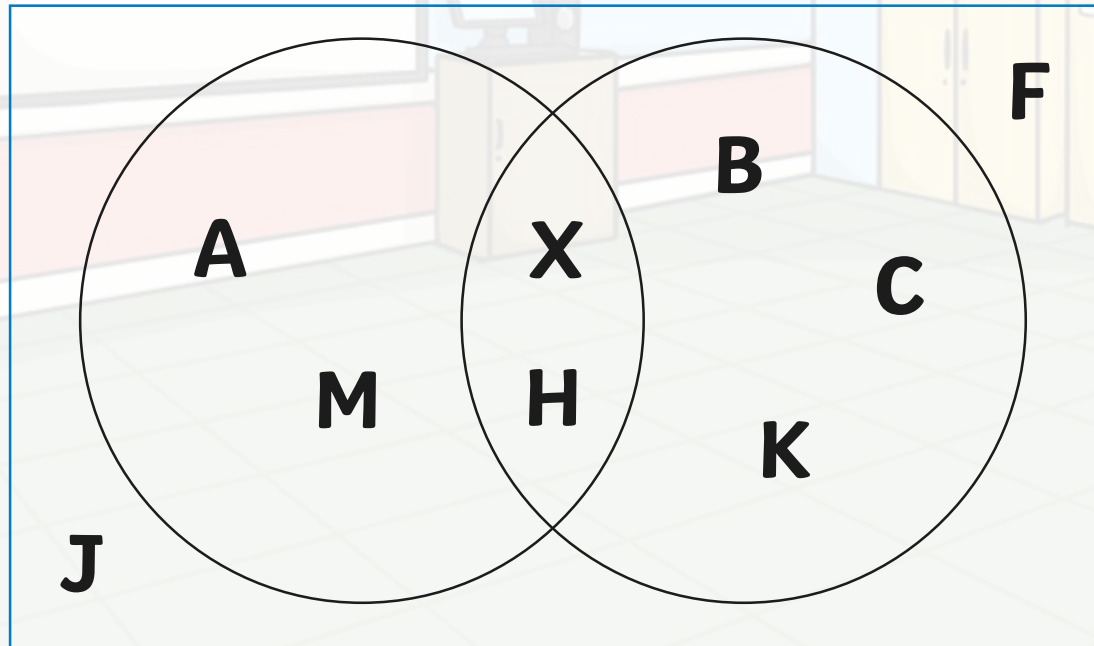
Horizontal and Vertical Lines

Deepest



Lots of letters have lines of symmetry.

Sort the letters in the box into the Venn diagram:



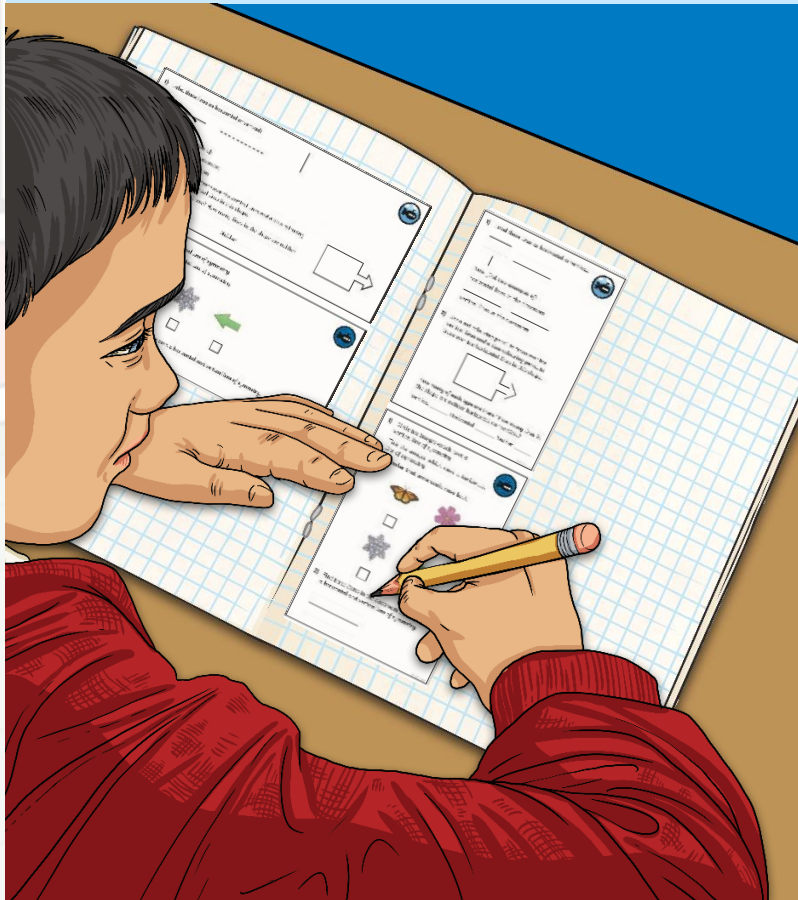
Vertical line
of symmetry

Horizontal line
of symmetry

B	A	F
H	J	C
X	K	M

Horizontal and Vertical Lines

Dive in by completing your own activity!



1) Label these lines as horizontal or vertical:

Now, find two examples of:
horizontal lines in the classroom: _____
vertical lines in the classroom: _____





2) Use a red colouring pencil to trace over the vertical lines and a blue colouring pencil to trace over the horizontal lines in this shape.

How many of each type are there? How many lines in the shape are neither horizontal nor vertical?

Vertical _____ Horizontal _____ Neither _____

1) Circle the images which have a vertical line of symmetry.

Tick the images which have a horizontal line of symmetry.
Remember that some could have both.

☐ ☐ ☐ ☐

2) Find three items in the classroom that have both a horizontal and vertical line of symmetry.

1) Scott sorts the letters in this word into two groups:

SYMMETRICAL

He says:

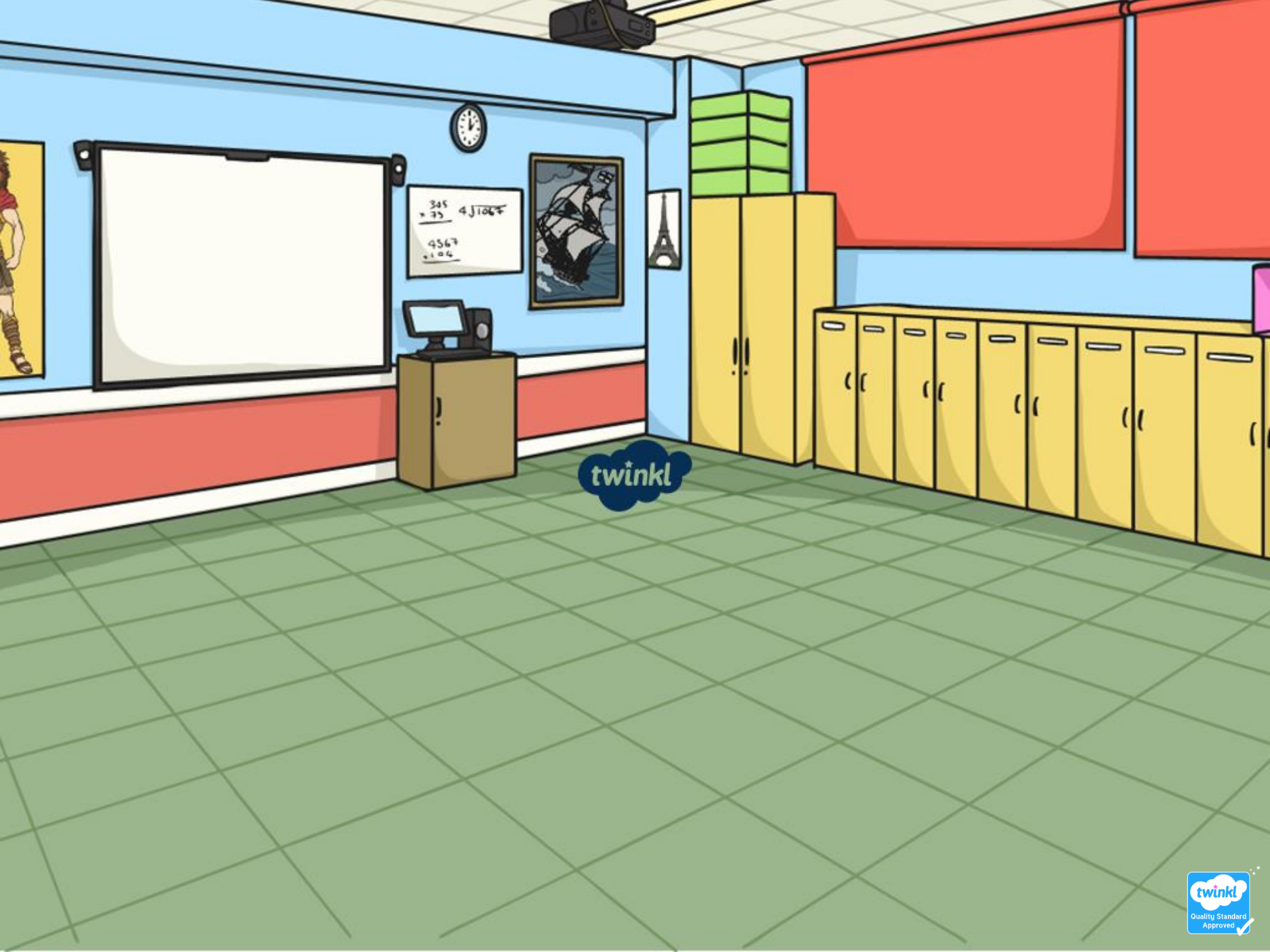
The letters Y, M, T, I and A are the only symmetrical letters.

What mistake has he made?

2) Use squared paper to create a picture using **only** horizontal and vertical lines.

3) Investigate: Can you find a word, written in capitals, that has six vertical lines? Write it here: _____

How many horizontal lines does it have? _____



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