

Varied Fluency – Horizontal and Vertical

National Curriculum Objectives:

Mathematics Year 3: (3G2) [Identify horizontal and vertical lines](#)

Differentiation:

Developing Questions to support learning about horizontal and vertical. Easy questions using simple shapes and objects.

Expected Questions to support learning about horizontal and vertical. Harder questions with a greater number of elements, using more complex shapes and objects.

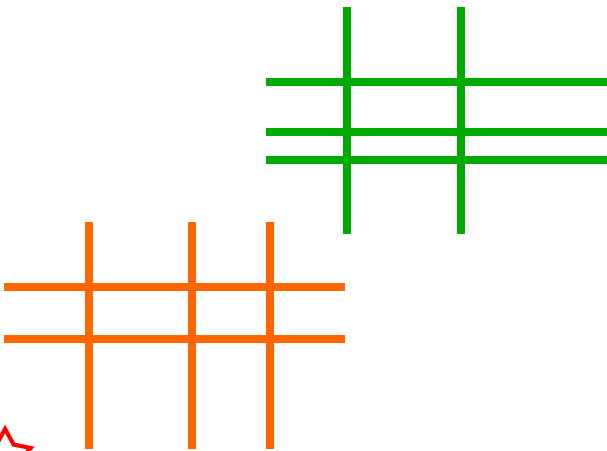
Greater Depth Questions to support learning about horizontal and vertical. Hardest questions with an even greater number of elements, using very complex shapes and objects.

[More resources](#) which follow the same small steps as White Rose.

Did you like this resource? Don't forget to [review](#) it on our website.

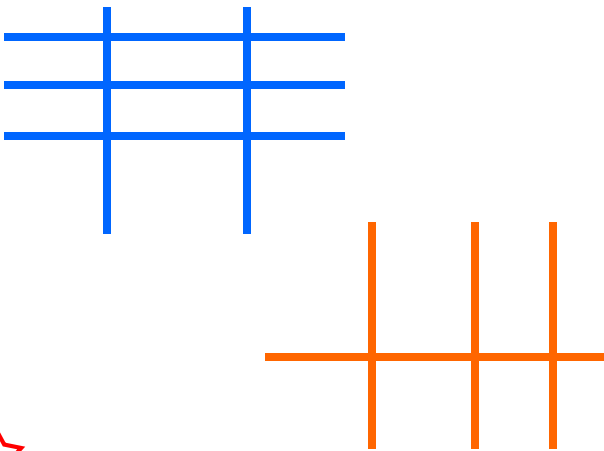
Varied Fluency – Horizontal and Vertical

1a. Which of the images below has the most vertical lines?



VF

1b. Which of the images below has the most horizontal lines?



VF

2a. Fill in the table below.

<u>Object</u>	<u>Horizontal or vertical?</u>
Table top	
Table leg	



VF

2b. Fill in the table below.

<u>Object</u>	<u>Horizontal or vertical?</u>
Side of a whiteboard	
Top of a whiteboard	



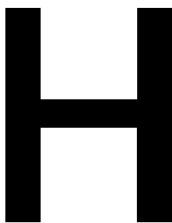
VF

3a. Does this shape have a horizontal line of symmetry?



VF

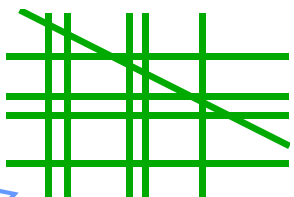
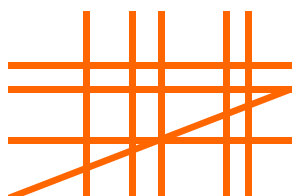
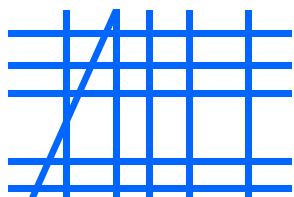
3b. Does this shape have a vertical line of symmetry?



VF

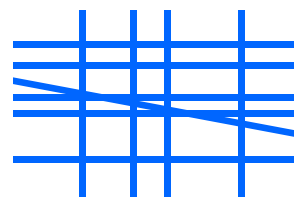
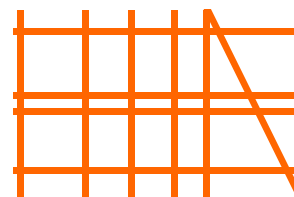
Varied Fluency – Horizontal and Vertical

4a. Which of the images below has the most horizontal lines?



VF

4b. Which of the images below has the fewest vertical lines?



VF

5a. Fill in the table below.

<u>Object</u>	<u>Horizontal, vertical or either?</u>
Football crossbar	
Fence	
Football goalpost	
Lid of a chest	



VF

5b. Fill in the table below.

<u>Object</u>	<u>Horizontal, vertical or either?</u>
Curtain rail	
Trapdoor	
Shelf	
Cliff face	



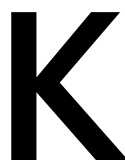
VF

6a. Which of these shapes has a vertical line of symmetry?



VF

6b. Which of these shapes has a horizontal line of symmetry?



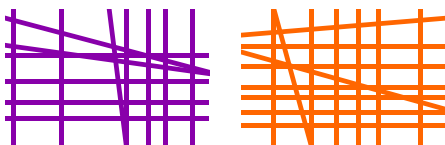
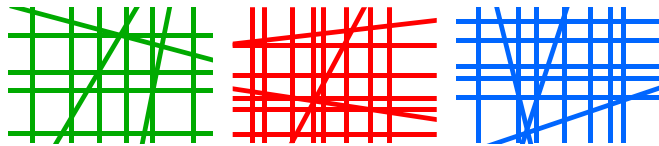
VF

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Varied Fluency – Horizontal and Vertical – Year 3 Expected

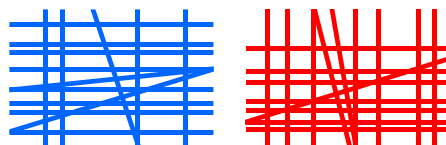
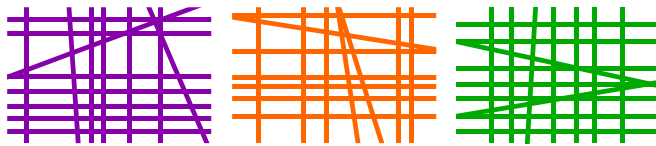
Varied Fluency – Horizontal and Vertical

7a. Which of the images below has the most vertical lines? Which has the most horizontal lines?



VF

7b. Which of the images below has the most vertical lines? Which has the most horizontal lines?



VF

8a. in the table below.

Object	Horizontal, vertical, either or neither?
Ship's deck	
The Eiffel Tower	
Wheelchair ramp	
Castle drawbridge	
Ship's mast	
Ski jump	



VF

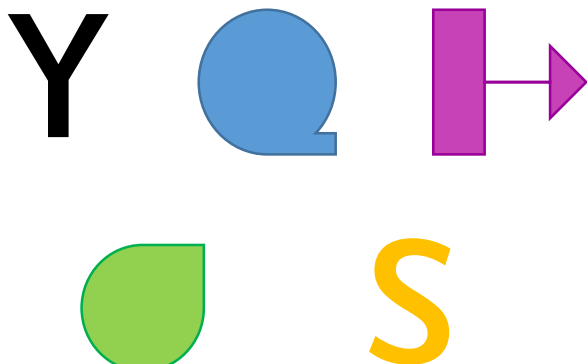
8b. Fill in the table below.

Object	Horizontal, vertical, either or neither?
Lift shaft	
Car park barrier	
The face of a pyramid	
Airport runway	
Slide	
Train tracks	



VF

9a. Which of these shapes has a vertical line of symmetry? Which has a horizontal line of symmetry?



VF

9b. Which of these shapes has a vertical line of symmetry? Which has a horizontal line of symmetry?



VF

Varied Fluency – Horizontal and Vertical

Developing

- 1a. The orange shape (bottom left)
- 1b. The blue shape (top left)
- 2a. Table top is horizontal; table leg is vertical.
- 2b. Side of a whiteboard is vertical; top of a whiteboard is horizontal.
- 3a. No
- 3b. Yes

Expected

- 4a. The blue shape (top left)
- 4b. The blue shape (bottom right)
- 5a. Football crossbar is horizontal; fence is vertical; football goalpost is vertical; lid of a chest is either.
- 5b. Curtain rail is horizontal; trapdoor is either; shelf is horizontal; cliff face is vertical.
- 6a. The smiley face
- 6b. The letter 'K'

Greater Depth

- 7a. The red shape (top centre) has the most vertical lines. The orange shape (bottom right) has the most horizontal lines.
- 7b. The red shape (bottom right) has the most vertical lines. The blue shape (bottom left) has the most horizontal lines.
- 8a. Ship's deck is horizontal; The Eiffel Tower is vertical; wheelchair ramp is neither; castle drawbridge is either; ship's mast is vertical; ski jump is neither.
- 8b. Lift shaft is vertical; car park barrier is either; the face of a pyramid is neither; airport runway is horizontal; slide is neither; train tracks are horizontal.
- 9a. The letter 'Y' has a vertical line of symmetry. The rectangle attached to an arrow has a horizontal line of symmetry.
- 9b. The star has a vertical line of symmetry. The letter 'D' has a horizontal line of symmetry.