## Varied Fluency <br> Step 6: Parallel and Perpendicular

## National Curriculum Objectives:

Mathematics Year 3: (3G2) Identify horizontal and vertical lines and pairs of perpendicular and parallel lines

## Differentiation:

Developing Questions to support identifying a set of 2 parallel and perpendicular lines, both discretely and within shapes. Lines are horizontal and vertical. Simple shapes used.
Expected Questions to support identifying a set of 2 parallel and perpendicular lines, both discretely and within shapes. Lines may be diagonal. Simple shapes used. Greater Depth Questions to support identifying a set of more than 2 parallel and perpendicular lines, both discretely and within shapes. Lines may be diagonal. More complex shapes used.

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 - Parallel and Perpendicular



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## Varied Fluency - Parallel and Perpendicular

6a. How could you show these lines are parallel?

7a. Katie joins to dots $A \rightarrow B$ and $C \rightarrow D$. Will her lines be parallel, perpendicular or neither?

| $A^{\bullet}$ | $C^{\bullet}$ |
| :---: | :---: |
| $B_{B} B^{\bullet}$ | $D^{\bullet}$ |

8 a . Complete the sentences
The yellow line is parallel to the The green line is $\qquad$ to the blue line.


10a. True or false? A square has parallel lines.

9a. Identify a set of parallel lines in these shapes


6b. How could you show these lines are perpendicular?


7b. Sufyan joins to dots $A \rightarrow B$ and $B \rightarrow C$. Will his lines be parallel, perpendicular or neither?

D

B


## Varied Fluency - Parallel and Perpendicular



15a. How many sets of perpendicular lines does a square have?

15a. How many sets of parallel lines does a regular hexagon have?

14a. Identify a set of parallel lines in these shapes


14b. Identify a set of perpendicular lines in these shapes

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## Varied Fluency - Parallel and Perpendicular



1 b.


2a. Parallel
2b. Neither
3a. Blue, parallel
3b. Perpendicular, blue
4a. True, it has three sets of parallel lines.
4b. False, there is no right angle in the triangle.
$5 a$. One set labelled


5b. One set labelled


## Expected

$6 a$.

$6 b$.


7a. Parallel
7b. Perpendicular
8a. Blue, perpendicular
8b. Perpendicular, yellow
9 a. True, it has two sets of parallel lines.
$\mathrm{9b}$. False, a regular hexagon does not have any right angles so it has no perpendicular lines.
10a. One set labelled


10b. One set labelled


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## Varied Fluency - Parallel and Perpendicular

## Greater Depth

11a.


12a. $C \rightarrow D$ and $D \rightarrow E$
12b. $A \rightarrow B$ and $D \rightarrow E$
13a. Purple, green
Parallel, perpendicular
13b. Pink, orange
Perpendicular, parallel
14a. 2
14b. 3
15a. One set labelled



15b. One set labelled


