## Varied Fluency <br> Step 1: Describe Position

## National Curriculum Objectives:

Mathematics Year 4: (4P3a) Describe positions on a 2-D grid as coordinates in the first quadrant.

## Differentiation:

Developing Questions to support reading simple coordinates through identifying the number on the $x$ axis, followed by the $y$ axis.
Expected Questions to support reading coordinates and working out answers from a selection, some of which are incorrect.
Greater Depth Questions to support reading coordinates and working out answers from a greater selection, some of which are incorrect.

More resources which follow the same small steps as White Rose.

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7a. Are the coordinates of each point correct?


Purple: $(0,9)$ Yellow: $(14,2) \quad$ Brown: $(9,0)$
Green: $(4,2) \quad \operatorname{Red}:(7,4) \quad$ Black $(2,7)$

8 a . What do these coordinates spell? $(9,1)(9,7)(2,5)(13,5)(9,2)(5,2)$ $(11,4)(9,8)$


9a. Write the coordinates which join together to form a trapezium.


7b. Are the coordinates of each point correct?


Orange: $(12,4) \quad$ Blue: $(8,7) \quad$ Purple: $(8,8)$ Yellow: $(5,3) \quad$ Green: $(8,5) \quad B r o w n(0,0)$

8b. What do these coordinates spell?
$(8,1)(4,0)(5,4)(8,2)(11,4)(8,8)$ $(0,4)(13,1)(12,7)$


VF
qb . Write the coordinates which join together to form a parallelogram.

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## Varied Fluency - Describe Position

## Developing

1a. The the coordinates for red should be $(3,4)$ and the coordinates for yellow should be $(6,2)$.
1 b . The the coordinates for purple should be $(2,7)$ and the coordinates for orange are correct.
2a. The coordinates spell FRUIT.
2 b . The coordinates spell GROUP.
$3 a$. The coordinates which make a rectangle are: $(2,2)(2,5)(9,5)$ and $(9,2)$.
$3 b$. The coordinates which make a square are: $(4,5)(4,8)(7,5)(7,8)$.

## Expected

4a. The coordinates for Purple: should be (7, 6); Yellow: correct; Green: should be (0, 1); Red: should be (3, 4); Blue: correct; Orange: should be $(9,7)$

4b. The coordinates for Purple: correct; Yellow: correct; Green: should be (2, 2); Red: correct; Blue: should be $(7,2)$; Orange: should be $(5,4)$
$5 a$. The coordinates spell REIGN.
$5 b$. The coordinates spell OFTEN.
$6 a$. The coordinates which make a square are: $(2,2)(6,2)(6,6)$ and $(2,6)$.
6b. The coordinates which make a right angled triangle are: $(9,2)(9,6)$ and $(7,6)$.

## Greater Depth

7 a. The coordinates for Purple: should be $(9,0)$; Yellow: correct; Brown: should be $(9$, 6); Green: correct; Red: should be (4, 7); Black: should be $(7,2)$

7b. The coordinates for Orange: correct; Blue: should be (7, 7); Purple: should be (7, 8); Yellow: correct; Green: should be (8, 4); Brown: correct.
$8 a$. The coordinates spell SEPARATE.
8 b . The coordinates spell FAVOURITE.
$9 a$. The coordinates which make a trapezium are: $(3,2),(5,5),(9,5)$ and $(11,2)$.
9 b . The coordinates which make a parallelogram are: $(1,4),(6,7),(6,1)$ and $(11,4)$.

