# Varied Fluency Step 1: Describe Turns

# National Curriculum Objectives:

Mathematics Year 1: (1P2) <u>Describe position</u>, <u>direction and movement</u>, <u>including</u> <u>whole</u>, <u>half</u>, <u>quarter and three-quarter turns</u>

#### Differentiation:

Developing Questions to support describing turns. Objects and shapes will begin at their expected angle before turning. Some multiple choice questions. Quarter and half turns.

Expected Questions to support describing turns. Objects and shapes will begin at expected, 90° or 180° from expected angle before turning. Mostly quarter and half turns, some 3 quarter turns.

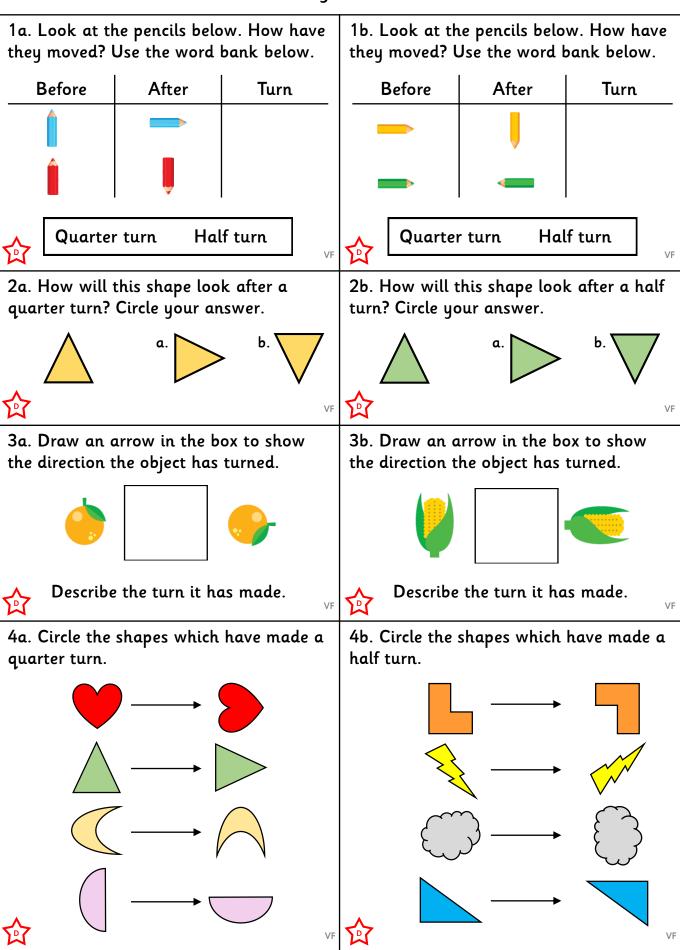
Greater Depth Questions to support describing turns. Objects and shapes will begin at any angle before turning. Any turns included, some question require both possible answers.

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.

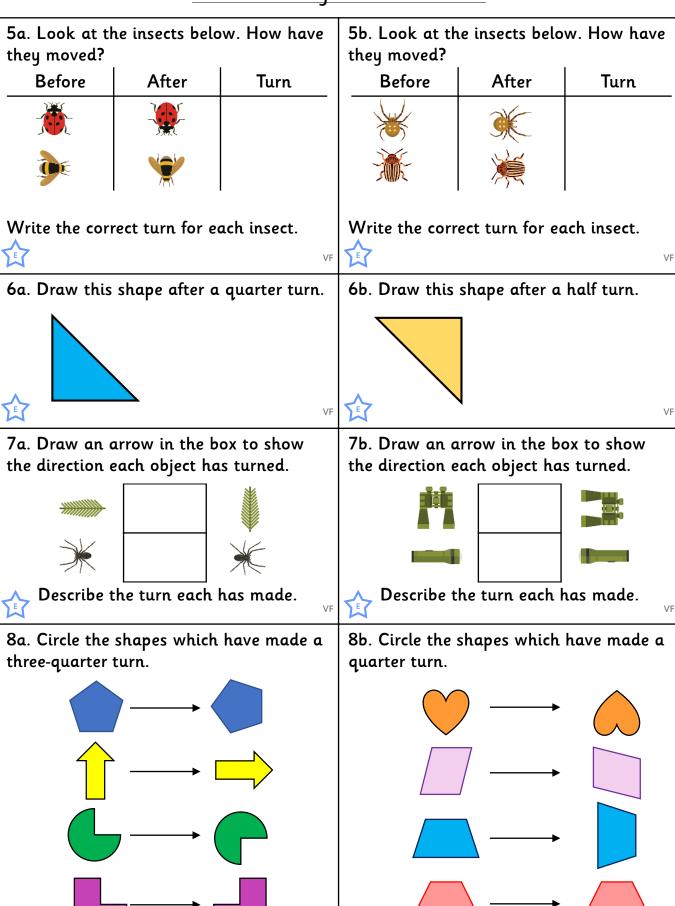


# Varied Fluency — Describe Turns





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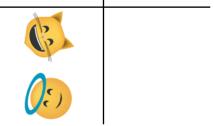


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9a. Look at the faces below. How have they moved?

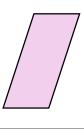
Before	After	Turn
(3)	OE)	

Write the correct turn for each face.

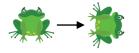


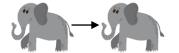


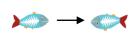
10a. Draw this shape after a half turn.



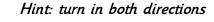
11a. Describe the turn each image has made (there may be more than one answer).



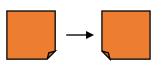


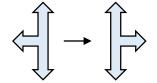


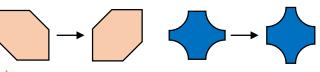


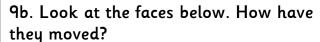


12a. Circle the shapes which have made the same turn, which turn is it?









Before	After	Turn
	(,)	
17 pt	17 pm	

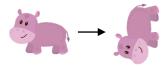
Write the correct turn for each face.

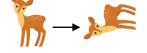


10b. Draw this shape after a threequarter turn.

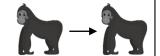


11b. Describe the turn each image has made (there may be more than one answer).





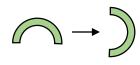


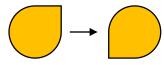


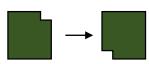


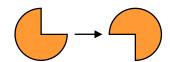
Hint: turn in both directions

12b. Circle the shapes which have made the same turn, which turn is it?















# Varied Fluency - Describe Turns

The terms 'clockwise' and 'anti-clockwise' have been used in the answers, however this vocabulary is not required for Year 1. Accept answers which indicate the direction of the turn.

#### <u>Developing</u>

- 1a. Quarter turn Half turn
- 1b. Quarter turn Half turn
- 2a. Shape a
- 2b. Shape b
- 3a. 2 possible answers:

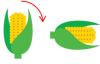


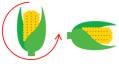


quarter turn

three quarter turn

#### 3b. 2 possible answers:





quarter turn

three quarter turn

4a. All shapes have made a quarter turn: the heart and the semi-circle have made an anti-clockwise quarter turn and the triangle and the moon have made a clockwise quarter turn.

4b. The L-shape and the triangle have made a half turn.

#### **Expected**

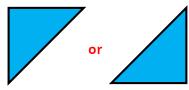
5a. Half turn

Quarter turn (clockwise)/three-quarter turn (anti-clockwise)

5b. Quarter turn (clockwise)/three-quarter turn (anti-clockwise)

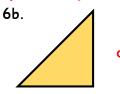
Quarter turn (anti-clockwise)/three-quarter turn (clockwise)

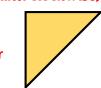
6a.



(clockwise)

(anti-clockwise)





(clockwise)

(anti-clockwise)

7a. 2 possible answers for each image:





(clockwise)

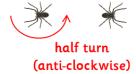


three quarter turn (anti-clockwise)





half turn (clockwise)



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# Varied Fluency - Describe Turns

#### Expected (continued)

7b. 2 possible answers for each image:



8a. The pentagon and the L-shape have made a three-quarter, clockwise turn. The arrow and the part-circle have made a three-quarter, anti-clockwise turn .

8b. The parallelogram has made a quarter, anti-clockwise turn. The trapezium has made a quarter, clockwise turn.

#### Greater Depth

9a. Quarter turn (clockwise)/three-quarter turn (anti-clockwise)
Quarter turn (anti-clockwise)/three-quarter turn (clockwise)

9b. Quarter turn (anti-clockwise)/three-quarter turn (clockwise)
Full turn (clockwise or anti-clockwise)

10a.



10b.



11a. The frog has made a quarter, clockwise turn, or a three-quarter, anti-clockwise turn.

The elephant has made a full, clockwise turn or a full, anti-clockwise turn.

The fish has made a half, clockwise turn or a half, anti-clockwise turn.

The zebra has made a three-quarter, clockwise turn or a quarter, anti-clockwise turn.

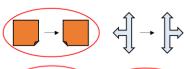
11b. The hippo has made a three-quarter, clockwise turn or a quarter, anti-clockwise turn.

The deer has made a three-quarter, clockwise turn or a quarter, anti-clockwise turn.

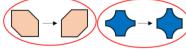
The crocodile has made a half, clockwise turn or a half, anti-clockwise turn.

The gorilla has made a full, clockwise turn or a full, anti-clockwise turn.

12a.



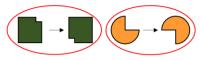
They make a quarter, anti-clockwise turn, or a three-quarter, clockwise turn.



12b.



They make a half turn, either clockwise or anti-clockwise.



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