

Varied Fluency

Step 1: Turns and Angles

National Curriculum Objectives:

Mathematics Year 3: (3G4a) [Recognise that angles are a property of a shape or a description of a turn](#)

Mathematics Year 3: (3G4b) [Identify right angles, recognise that two right angles make a half turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle](#)

Differentiation:

Developing Questions to support recognising angles as a description of a turn and make turns in fractions both clockwise and anti-clockwise. Quarter and half turns only written in words.

Expected Questions to support recognising angles as a description of a turn and make turns in fractions both clockwise and anti-clockwise. Quarter, half turns and three-quarter turns, written in words or as fractions.

Greater Depth Questions to support recognising angles as a description of a turn and make turns in fractions both clockwise and anti-clockwise. Quarter, half turns and three-quarter turns, written in words or as fractions. More than one turn for some questions and using different starting points.

More [Year 3 Properties of Shape](#) resources.

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

Turns and Angles

1a. Start at north. Turn a quarter turn clockwise. Which direction are you now facing?



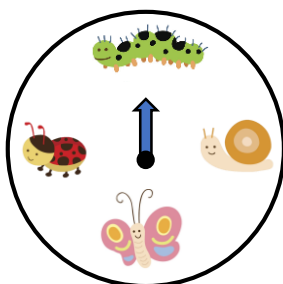
VF

1b. Start at north. Turn a quarter turn anti-clockwise. Which direction are you now facing?



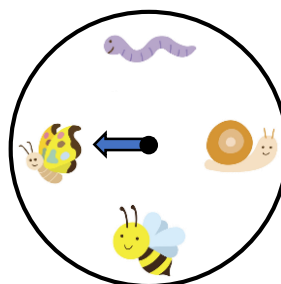
VF

2a. What turn does the spinner need to make to get from the caterpillar to the butterfly?



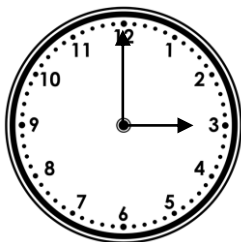
VF

2b. What turn does the spinner need to make to get from the butterfly to the snail?



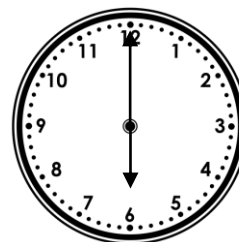
VF

3a. If the hour hand is turned a quarter turn, what time will it be?



VF

3b. If the hour hand is turned a quarter turn, what time will it be?



VF

4a. Sort the images into the table.

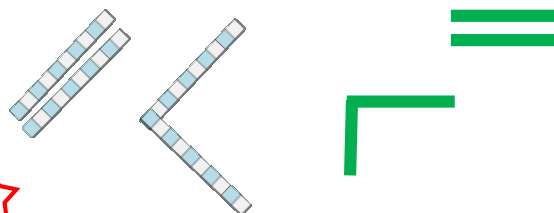
Angle	Not an Angle



VF

4b. Sort the images into the table.

Angle	Not an Angle



VF

Turns and Angles

5a. Start at north. Turn three quarters clockwise. Which direction are you now facing?



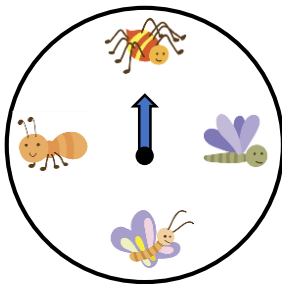
VF

5b. Start at south. Turn three quarters anti-clockwise. Which direction are you now facing?



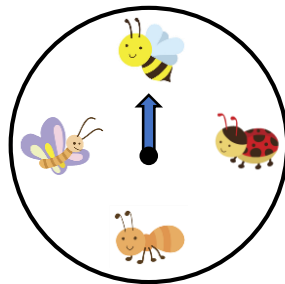
VF

6a. What turn does the spinner need to make to get from the spider to the dragonfly?



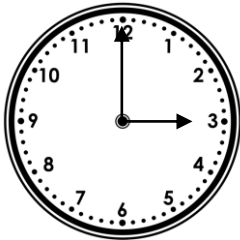
VF

6b. What turn does the spinner need to make to get from the bee to the butterfly?



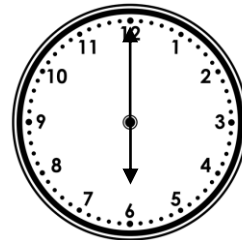
VF

7a. If the hour hand is turned a $\frac{3}{4}$ turn, what time will it be?



VF

7b. If the hour hand is turned a $\frac{3}{4}$ turn, what time will it be?



VF

8a. Sort the images into the table.

All lines make angles	Not all lines make angles



VF

8b. Sort the images into the table.

All lines make angles	Not all lines make angles



VF

Turns and Angles

9a. Start at north. Turn a quarter turn clockwise then a half turn anti-clockwise. Which direction are you now facing?



VF

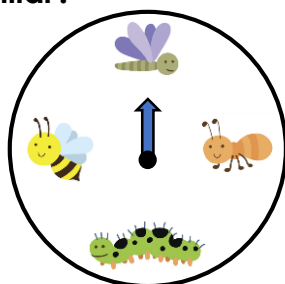
Turns and Angles

9b. Start at north. Turn three quarters clockwise then a half turn anti-clockwise. Which direction are you now facing?



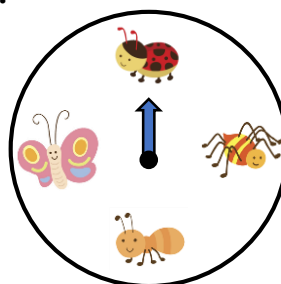
VF

10a. What two different turns could the spinner make to get from the dragonfly to the caterpillar?



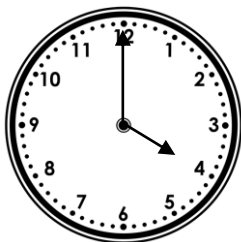
VF

10b. What two different turns could the spinner make to get from the ladybird to the butterfly?



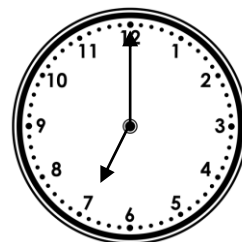
VF

11a. If the hour hand is turned a $\frac{1}{4}$ turn, what time will it be?



VF

11b. If the hour hand is turned a $\frac{1}{4}$ turn, what time will it be?



VF

12a. Sort the images into the table.

All lines make angles	Not all lines make angles



VF

12b. Sort the images into the table.

All lines make angles	Not all lines make angles



VF

Varied Fluency Turns and Angles

Developing

- 1a. **East**
 2a. **Half turn clockwise or anti-clockwise.**
 3a. **12 o'clock or 6 o'clock**
 4a.

Angle	Not an Angle
	

Expected

- 5a. **West**
 6a. **Quarter turn clockwise or three quarter turn anti-clockwise.**
 7a. **12 o'clock or 6 o'clock**
 8a.

All lines make angles	Not all lines make angles
	

Greater Depth

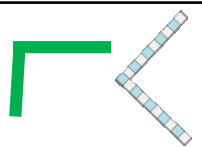
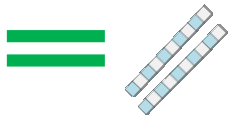
- 9a. **West**
 10a. **Half turn clockwise and half turn anti-clockwise**
 11a. **7 o'clock or 1 o'clock**
 12a.

All lines make angles	Not all lines make angles
	

Varied Fluency Turns and Angles

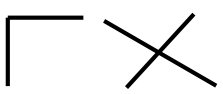
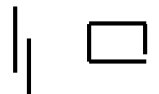
Developing

- 1b. **West**
 2b. **Half turn clockwise or anti-clockwise.**
 3b. **3 o'clock or 9 o'clock**
 4b.

Angle	Not an Angle
	

Expected

- 5b. **West**
 6b. **Quarter turn anti-clockwise or three-quarter turn clockwise.**
 7b. **3 o'clock or 9 o'clock**
 8b.

All lines make angles	Not all lines make angles
	

Greater Depth

- 9b. **East**
 10b. **Quarter turn anti-clockwise and three-quarter turn clockwise.**
 11b. **10 o'clock or 4 o'clock**
 12b.

All lines make angles	Not all lines make angles
	