Lesson 2

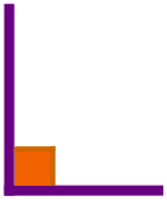
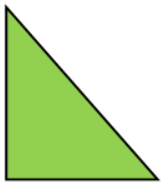
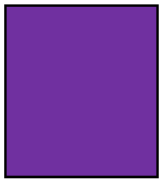
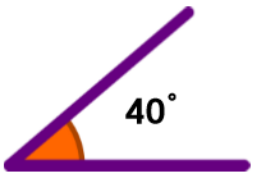
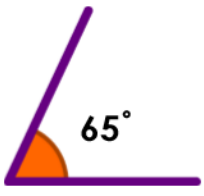
L.O I am learning to understand angles and directions.

All	All of you must complete the fluency section.
Most	Most of you will compete the fluency and reasoning sections.
Some	Some of you will complete the fluency, reasoning, and problem-solving sections.

Try your best – it is all we can ask for! 😊

This video may help if you are stuck at any point:
https://corbettmaths.com/2012/08/10/types-of-angle/

Fluency

Key vocabulary: Acute, Obtuse, Right, Straight line, Reflex	Your answer
1a. Which of the following shows a right angle? A.  B. 	
5a. How many right angles in these shapes?  	
11b. If you added the degrees both these angles together would the total be more or less than the degrees in a right angle?  	

Week 1_Maths_Lesson 2

Complete the sentences.

There is ☐ right angle in a quarter turn.

A quarter turn is ☐ degrees.

There are ☐ right angles in a half turn.

A half turn is ☐ degrees.

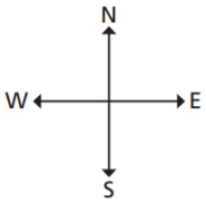
There are ☐ right angles in a three-quarter turn.

A three-quarter turn is ☐ degrees.

There are ☐ right angles in a full turn.

A full turn is ☐ degrees.

Here is a compass.



a) Huan is facing north.

He turns half a turn.

What direction is he facing now? _____

b) Whitney is facing east.

She turns 180°.

What direction is she facing now? _____

c) Alex is facing west.

She turns a quarter turn clockwise.

What direction is she facing now? _____

d) Amir is facing west.

He turns 90° anticlockwise.

What direction is he facing now? _____

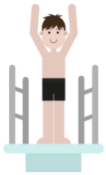
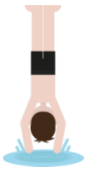
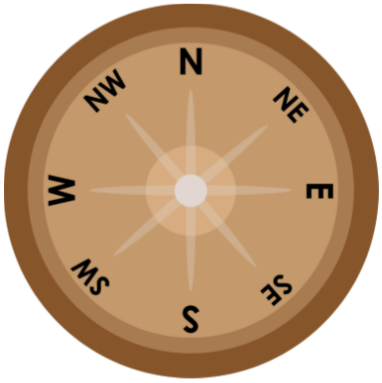
Week 1_Maths_Lesson 2

Reasoning

Key vocabulary: Acute, Obtuse, Right, Straight line, Reflex	Your answer
1a. Which is the odd one out? **half turn**  **90°** **Explain your answer.**	
 How many degrees did Eva turn through?	
True or False? **A one and three quarter turn is equal to 530°** **Prove it!**	

Week 1_Maths_Lesson 2

Problem Solving

Key vocabulary: Acute, Obtuse, Right, Straight line, Reflex	Your answer
Divers at the Olympic Games flip at least one full turn but no more than four full turns. They start on a platform in this position...  They end in the water in this position...  How many turns can they make? What are they in quarters? What are they in degrees?	
Halfway between two compass points, for example northeast, is called an intercardinal point.  The difference between two intercardinal points on a compass is 270° or a three quarter turn. What could the two points be?	

Extension

Key vocabulary: Acute, Obtuse, Right, Straight line, Reflex	Your answer
Complete the statements. a) $\frac{1}{2}$ of a full turn = ☐ b) $\frac{1}{4}$ of a full turn = ☐ c) $\frac{3}{4}$ of a full turn = ☐ d) $1\frac{1}{4}$ turns = ☐ e) $5\frac{3}{4}$ turns = ☐	