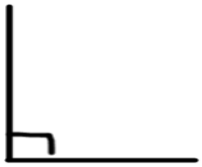
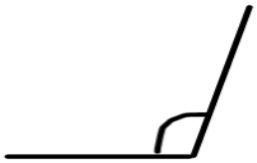
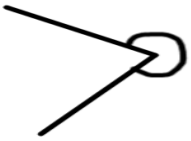
Summer Learning Journey for Maths
Year 9F Unit 6 – Angles

How does this unit link to prior learning?

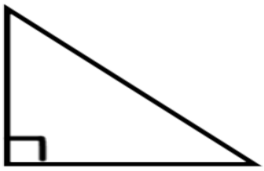
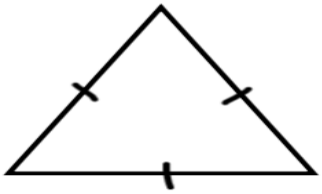
- Types of angles
- Link to lessons 2, 4, 7, 8
- Names of triangles
- Link to lesson 7

Prior Knowledge Check

1) What are the names of these types of angles?

2) What are the names of these special triangles?

What will you be learning about?

- Understand the differences in angles in different polygons and shapes.
- Understand angle properties between parallel lines and other polygons and be able to express your understanding using the correct mathematical notation.

We will develop our learning each week by focusing on:

	RAG		RAG
1. Angle Facts • Recap on angles around a point and on a straight line • Recap on vertically opposite angles		**2. Properties of Quadrilaterals** • Solve geometric problems using side and angle properties of quadrilaterals.	
3. Angles in Quadrilaterals • Solve geometric problems using side and angle properties of quadrilaterals.		**4. Congruent Shapes** • Identify congruent shapes.	

5. Use Angles in Parallel lines • Understand and use the angle properties of parallel lines.		**6. Finding Angles in Parallel Lines** • Find missing angles using corresponding and alternate angles.	
7. Consolidation Lesson • Knowledge check and practice of topics learnt so far.		**8. Angles in triangles** • Solve angle problems in triangles. • Understand angle proofs about triangles.	
9. Interior angles • Calculate the interior angles of regular polygons.		**10. More exterior and interior angles** Calculate the interior and exterior angles of polygons.	
11. Geometrical patterns • Solve geometrical problems showing reasoning.		12. **Revision Lesson** • Select topics you feel the class need to revise. • Classroom based or Mathswatch.	
13. **Assessment Lesson** • Do 10-minute top up and go through answers together, students self-assess. • Open book assessment done in silence.		14. **Feedback Lesson** • Student to highlight their traffic light sheet. • Teacher to go through test and students to self-assess in green. • Students to complete the NOW section of the WOW-HOW-NOW sheet.	

Key Vocabulary

Quadrilateral	Angle	Polygon	Parallel	Interior	Exterior	Tessellation

How will this help you in the future?	
KS4	**Beyond LHS**
Learning about angles is important when going into Key Stage 4 because they are a core part of GCSE maths, help you solve many geometry and trigonometry problems, and develop logical thinking needed for higher-level maths and real-life applications.	Learning about angles helps in later life by supporting practical skills such as navigation, construction, design, and problem-solving, as well as developing logical thinking used in many everyday and professional situations.