

UNIT 3 *Angle Geometry*

Lesson Plans

St

<i>Lesson No.</i>		<i>References</i>
1	Angles and Symmetry	
	Revise basic results (360° and 180° on straight line)	T3.1
	Exercises (if needed)	T3.1
	Introduce line and rotational symmetry	A3.1
	Exercises	T3.2
	Homework	A3.2 and P3.2 (Q.1 and 4)
2	Angle Geometry	
	Recap special triangles and quadrilaterals	OS3.1 and A3.3
	Introduce angles in triangles and quadrilaterals	T3.3
	Exercises	T3.3
	Homework	P3.3 (Q.2 and 3)
3	Parallel and Intersecting Lines	
	Recap results	OS3.3
	Exercises	T3.4
	Whole class activity – angles in polygons	A3.7
	Homework	P3.4 (Q.3, 4 and 5)
4	Angle Symmetry in Polygons	
	Introduce coursework	A3.6 or A3.8
	Angles in polygons	T3.5
	Exercises	T3.5
	Homework	P3.5 (Q.10)
5	Symmetry of 3D Shapes	
	Recap names and properties	OS 3.6
	Planes of symmetry	T3.6
	Exercises	T3.6
	Homework	P3.6 (Q.4 and 5)
6	Bearings	
	Recap compass directions and equivalent bearings	OS3.7
	Exercises	T3.7
	Introduce Homework	T3.7 (Q.9)
	Homework	P3.7 (Q.8 and 10)

UNIT 3 *Angle Geometry*

Lesson Plans

A

*Lesson No.**References***1 Angle Geometry**

Recap special triangles and quadrilaterals

OS3.1 and A3.3

Introduce angles in triangles and quadrilaterals

T3.3

Exercises

T3.3

Homework

P3.3 (Q.2 and 3)

2 Parallel and Intersecting Lines

Recap results

OS3.3

Exercises

T3.4

Whole class activity – angles in polygons

A3.7

Homework

P3.4 (Q.3, 4 and 5)

3 Angle Symmetry in Polygons

Introduce coursework

A3.6 or A3.8

Angles in polygons

T3.5

Exercises

T3.5

Homework

P3.5 (Q.10)

4 Symmetry of 3D Shapes

Recap names and properties

OS 3.6

Planes of symmetry

T3.6

Exercises

T3.6

Homework

P3.6 (Q.4 and 5)

5 Bearings

Recap compass directions and equivalent bearings

OS3.7

Exercises

T3.7

Introduce Homework

T3.7 (Q.9)

Homework

P3.7 (Q.8 and 10)

6 Angles and Circles

Revise results (and proof!)

OS3.4

Exercises

T3.8

Introduce homework

T3.8 (Q.5)

Homework

P3.8 (Q.2, 3 and 4)

UNIT 3 *Angle Geometry*

Lesson Plans

E*Lesson No.**References***1 Angle Geometry**

Angles in triangles and quadrilaterals	T3.3
Results for parallel and intersecting lines	OS3.3
Exercises	T3.4
Homework	P 3.3 (Q.3 and 4) and P 3.4 (Q.4 and 5)

2 Symmetry in Polygons

Angles in polygons	T3.5
Exercises	T3.5
Planes of symmetry	T3.6
Exercises	T3.6
Homework	P 3.5 (Q.10) and P3.6 (Q.4 and 5)

3 Bearings

Recap compass directions and equivalent bearings	OS3.7
Exercises	T3.7
Introduce Homework	T3.7 (Q.9)
Homework	P3.7 (Q.8 and 10)

4 Angles and Circles

Revise results (and proof!)	OS3.4
Exercises	T3.8
Introduce homework	T3.8 (Q.5)
Homework	P3.8 (Q.2, 3 and 4)

5 More Circle Theorems

Practical activities	A3.9 and A3.10
Proofs of results	T3.9
Exercises	T3.9 (Q.9 and 10)
Homework	P3.9 (Q.4, 6 and 9)

6 Circles and Tangents

Results including proofs	OS3.5 and T3.10
Exercises	T3.10 (Q.6)
Homework	P3.10 (Q.1, 8 and 9)