MOOR PARK HIGH SCHOOL: CURRICULUM

Key Stage 4 Long Term Planning

Year 10 2024-2025 SYLLABUS: AQA GCSE Mathematics 8300

Curriculum Area: Mathematics (support) – Foundation

(Please note that knowledge, related skills and connections to previous learning are linked by colour coding)

Year 10	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Knowledge	Transformations Pythagoras Theorem' 2D representation of 3D shapes	2d representation of 3D shapes (continued) Calculating with percentages	Standard form Measures Statistical measures	Indices Constructions and loci	Algebra – recap and extension Congruence and similarity	Further perimeter and area Graphs recap and extension
Skills	Congruent and similar shapes. Reflections, rotations, enlargements and translations (including vector) Know and use Pythagoras' theorem Plans and elevations of 3D shapes	Plans and elevations of 3D shapes Percentage problems including increase/decrease, original value problems and simple interest.	Place value for large numbers. Write numbers in standard form. Limits of accuracy. Metric units to solve problems including conversions. Density and speed. Mean, mode, median and range	Positive integer powers. Calculate with powers. Use standard ruler and compass constructions and use to solve problems	Collect like terms, multiply out a single bracket and factorise. Solve equations. Write the nth term for a linear sequence. Identify congruent triangles (SSS, SAS, ASA, RHS)	Identify faces, edges and vertices. Calculate perimeter. Know area formula and calculate area. Solve problems using coordinates. Equations of straight lines.
Connections to previous learning	Year 7 Summer 2 Transformations Year 9 Spring 1 sequences Year 8 Autumn term 1 Shapes and measures in 3D	Year 8 Autumn term 1 Shapes and measures in 3D Yr 9 spring 1 Basic percentages	Year 9 Autumn 2 Decimals Year 8 Autumn 1 Shapes and measures in 3D	Year 9 Spring 1 Sequences. Use a pair of compasses Draw a circle	Year 9 Autumn term 1 Basic algebra Know the different types of triangles. Understand the transformations.	Year 9 Spring 2 Perimeter and area Year 9 Autumn 2 Coordinates and line graphs
Assessment	*Skills check at the end of each unit (3 during this term)*	*Skills check at the end of each unit (2 during this term)* *Term test CAP1*	*Skills check at the end of each unit (3 during this term)*	*Skills check at the end of each unit (2 during this term)* *Term test – CAP2*	*Skills check at the end of each unit (2 during this term)*	*Skills check at the end of each unit (2 during this term)* *End of year exam*
Homework	Revision/numeracy booklet	Revision/numeracy booklet	Revision/numeracy booklet	Revision/numeracy booklet	Revision/numeracy booklet	Revision/numeracy booklet
Cultural Capital						
Literacy	Mathematical key terms/vocabulary for each unit. Correct terminology used when answering questions. Read and understand written questions	Mathematical key terms/vocabulary for each unit. Correct terminology used when answering questions. Read and understand written questions	Mathematical key terms/vocabulary for each unit. Correct terminology used when answering questions. Read and understand written questions	Mathematical key terms/vocabulary for each unit. Correct terminology used when answering questions. Read and understand written questions	Mathematical key terms/vocabulary for each unit. Correct terminology used when answering questions. Read and understand written questions	Mathematical key terms/vocabulary for each unit. Correct terminology used when answering questions. Read and understand written questions
CIAG	Aspiring Astronaut - https://www.youtube.com/watch?v=Boi-FMB4-vs		Business Owner - https://www.youtube.com/watch?v=C7tQW5ieGHg		digital tech engineer - https://youtu.be/TWGgqmQAfvM	

MOOR PARK HIGH SCHOOL: CURRICULUM

Key Stage 4 Long Term Planning

Year 11 2024-2025 SYLLABUS: AQA GCSE Mathematics 8300

Curriculum Area: Mathematics (support) – Foundation

(Please note that knowledege, related skills and connections to previous learning are linked by colour coding)

Year 11	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1
Knowledge	Properties of polygons Review and extension probability	Probability Further circumference and area Real life graphs	Inequalities Volume	Algebra and graphs Sketching graphs Quadratic graphs	Exam preparation - revision
Skills	Know the properties of polygons. Calculate interior and exterior angles of polygons. Understand the probability scale. Work out probabilities and solve problems. Use tree diagrams.	Understand the probability scale. Work out probabilities and solve problems. Use tree diagrams. Know the parts of a circle. Know and use the formula for the areas and circumference of a circle Plot graphs of real-life situations and find solutions, including speed/distance graphs	Represent inequalities on a numbers line. Solve linear inequalities. Calculate the volume of cubes, cuboids and prisms.	Solve equations. Plot linear graphs. Find solutions using graphs. Recognise graphs if linear, quadratic, cubic and reciprocal functions Recognise, sketch and interpret quadratic graphs.	
Connections to previous learning	Year 9 Autumn 1 Angles Year 9 Summer 1 Probability	Year 9 Summer 1 Probability Year 9 Spring 2 Area and circumference	Year 10 Summer 1 Algebra recap and extension Year 8 Autumn 1 Shapes and measures in 3D	Year 10 Summer 1 Algebra recap and extension Year 10 Graphs recap and extension Year 10 Graphs recap and extension	
Assessment	*Skills check at the end of each unit (2 during this term)*	*Skills check at the end of each unit (3 during this term)* *Mock 1 CAP1*	*Skills check at the end of each unit (2 during this term)*	*Skills check at the end of each unit (3 during this term)* *Mock 2 – CAP2*	*GCSE Examinations*
Homework	Revision/numeracy booklet	Revision/numeracy booklet	Revision/numeracy booklet	Revision plan	Revision plan
Cultural Capital					
Literacy	Mathematical key terms/vocabulary for each unit. Correct terminology used when answering questions. Read and understand written questions	Mathematical key terms/vocabulary for each unit. Correct terminology used when answering questions. Read and understand written questions	Mathematical key terms/vocabulary for each unit. Correct terminology used when answering questions. Read and understand written questions	Mathematical key terms/vocabulary for each unit. Correct terminology used when answering questions. Read and understand written questions	Mathematical key terms/vocabulary for each unit. Correct terminology used when answering questions. Read and understand written questions
CIAG	Data Analysts - https://www.youtube.com/watch?v=yqyIYh4bKKo	Software Engineer - https://youtu.be/Q9tUUP-phCw	Film Maker - https://www.youtube.com/watch?v=C7tQW5ieGHg	Climate Scientist - https://youtu.be/HZND8Fas8Uw Mathematics KS5 taster sessions	