MATHS Y9 CURRICULUM AND ASSESSMENT MILESTONES DOCUMENT

YEAR 9 CURRICULUM MILESTONES: MATHS

Autumn 1: Straight Line Graphs	Study the general form of the equation of a straight line; $y = mx + c$ in abstract and real-life context.
Autumn 2: Equations and Inequalities	Revisit forming and solving equations and inequalities and explore rearranging formulae
Autumn 3: Testing Conjectures	Make and test conjectures about patterns and relationships
Autumn 4: Three-Dimensional Shapes	Explore surface area and volume as well as plans and elevations.
Autumn 5: Constructions and Congruency	Find a locus of points and carry out standard constructions using a straight edge and a pair of compasses. Explore congruency and compare congruent figures.
Spring 1: Numbers	Develop knowledge of the number system including rational and real numbers
Spring 2: Using Percentages	Look at reverse percentage problems and link to fractions and decimals
Spring 3: Maths and Money	Practise number skills in various financial contexts including simple ideas of taxes, wages and interest.
Spring 4: Deduction	Revise and extend knowledge of angles rules and properties of shapes to solve complex problems
Spring 5: Rotation and Translation	Look at rotational symmetry and rotation as well as translations described in vector form
Spring 6: Pythagoras Theorem	Investigate the relationship between the sides of a right-angled triangle and explore using Pythagoras Theorem
Summer 1: Enlargement and Similarity	Develop knowledge of enlargement, linking to similar shapes and finding unknown sides
Summer 2: Ratio and Proportion	Solve all types of ratio problems, linking to direct proportion and graphs, as well as inverse proportion.
Summer 3: Rates	Develop knowledge of inverse relationships to explore compound units such as speed and density.
Summer 4: Probability	Calculate the probabilities of single and combined events using a variety of diagrams
Summer 5: Algebraic Representation	Look at interpretation and creation of different types of graphs including quadratic, reciprocal and exponential graphs

YEAR 9 ASSESSMENT MILESTONES: MATHS

Autumn 1: Straight Line Graphs	20 minute end of block mini assessment of topics learnt within this unit. Scores to inform future homework topics and learning within consolidation weeks.
Autumn 2: Equations and Inequalities	20 minute end of block mini assessment of topics learnt within this unit. Scores to inform future homework topics and learning within consolidation weeks.
Autumn 3: Testing Conjectures	20 minute end of block mini assessment of topics learnt within this unit. Scores to inform future homework topics and learning within consolidation weeks.
Autumn 4: Three-Dimensional Shapes	20 minute end of block mini assessment of topics learnt within this unit. Scores to inform future homework topics and learning within consolidation weeks.
Autumn 5: Constructions and Congruency	20 minute end of block mini assessment of topics learnt within this unit. Scores to inform future homework topics and learning within consolidation weeks.
Spring 1: Numbers	20 minute end of block mini assessment of topics learnt within this unit. Scores to inform future homework topics and learning within consolidation weeks.
Spring 2: Using Percentages	20 minute end of block mini assessment of topics learnt within this unit. Scores to inform future homework topics and learning within consolidation weeks.
Assessment: Mid-Year **Written test on topics learnt so far in Year 9**	Pupils will be given a breakdown of their strengths and weaknesses from the assessment. These topics will make up future revision lessons.
Spring 3: Maths and Money	20 minute end of block mini assessment of topics learnt within this unit. Scores to inform future homework topics and learning within consolidation weeks.
Spring 4: Deduction	20 minute end of block mini assessment of topics learnt within this unit. Scores to inform future homework topics and learning within consolidation weeks.
Spring 5: Rotation and Translation	20 minute end of block mini assessment of topics learnt within this unit. Scores to inform future homework topics and learning within consolidation weeks.
Spring 6: Pythagoras Theorem	20 minute end of block mini assessment of topics learnt within this unit. Scores to inform future homework topics and learning within consolidation weeks.
Summer 1: Enlargement and Similarity	20 minute end of block mini assessment of topics learnt within this unit. Scores to inform future homework topics and learning within consolidation weeks.
Summer 2: Ratio and Proportion	20 minute end of block mini assessment of topics learnt within this unit. Scores to inform future homework topics and learning within consolidation weeks.
Summer 3: Rates	20 minute end of block mini assessment of topics learnt within this unit. Scores to inform future homework topics and learning within consolidation weeks.
Summer 4: Probability	20 minute end of block mini assessment of topics learnt within this unit. Scores to inform future homework topics and learning within consolidation weeks.
Summer 5: Algebraic Representation	20 minute end of block mini assessment of topics learnt within this unit. Scores to inform future homework topics and learning within consolidation weeks.
Assessment: End of Year **written test on topics learnt in Year 9**	Pupil tests will be marked by teachers and answers modelled for pupils to self-assess. Scores, alongside other assessments and teacher assessment, will be used to determine maths sets for Year 10