

LONG TERM PLAN 2023/2024

YEAR GROUP: 8

SUBJECT: Mathematics

Week Start	<u>Content Description</u>	<u>Assessment</u>	<u>Events</u>
September			
3rd	Unit 1 - Integers, powers and roots 1. Directed numbers 2. Square roots and cube roots	Questioning, Peer discussion	
10 th	3. Indices 4. Working with indices	Classroom discussion, Clicker questions Unit Assessment	10-14 th CEM Assessments (7,9 & 11) 14 th Target Grades Deadline (8,10, 12) 14 th Year 7 Picnic
17 th	Unit 18 – Graphs 18.1 Gradient of a graph 18.2 The graph of $y = mx + c$ 18.3 Drawing graphs	Think, Pair, Share, Questioning, Kahoot!	17-20 th CEM Assessments (7,9 & 11)
24 th	18.5 Direct proportion 18.6 Practical graphs The midpoint of a line segment	Students' reflection Unit Test	28 th Prophet's Birthday - Observed
October			
1st	Unit 9 - Algebra – Expressions and formulae 9.1 Simplifying algebraic expressions 9.2 Constructing algebraic expressions	Peer discussion, students' reflection	4 th Swimming Gala 5 th Armed Forces Day
8 th	Algebra 9.3 Substituting into expressions 9.4 Deriving and using formulae	Think, Pair, Share Students' Reflection, Questioning	8 th Target Grade Deadline (7,9,11) 10 th Careers Day
15 th	Algebra 9.5 Factorizing	Classroom discussion, Questioning, Short Quiz	
22 nd	Half Term Break		
29 th	9.6 Adding and subtracting algebraic fractions 9.7 Expanding the product of two linear expressions	Classroom discussion, Clicker Questions, Algebra Unit Assessment	31 st Orange and Black Day
November			

5 th	Unit 3 - Place value, ordering and rounding 3.1 Multiplying and dividing decimals mentally 3.2 Multiplying and dividing by powers of 10 3.3 Rounding	Clicker Questions, Short Quiz	
12 th	3.4 Order of operations Angles (Purple book, recall) 5.1 to 5.3	In class daily sheets, activities, mini quizzes	
19 th	Angles (Purple book, recall) 5.1 to 5.3	In class daily sheets, activities	AP1 Written Comments Deadline
26 th	Shapes 5.1 Regular polygons 5.2 More polygons 5.3 Solving angle problems	Classroom discussion, Questioning	
December			
3 rd	Revision AP1 Assessment	Revision Guide AP1 Assessment	4 th First Day AP1 Exams
10 th		Classroom Discussion, Clicker Questions	15 th Last Day AP1 Exams
17 th	Perimeter area and volume (Purple book) 17.1 Area of Triangle (Recall) 17.2 Areas of Parallelogram and Trapezium (recall) 17.3 The area and circumference of a circle (new)	Peer Discussion, Questioning, Short Quiz	22 nd Winter Break
25 th	Winter Break		
January			
1 st	Winter Break		
7 th	17.5 Volume and surface area of compound shapes (new)	Think, Pair, Share, Classroom Discussion, unit assessment	8 th First Day
14 th	Unit 7 - Fractions 7.1 Writing a fraction in its simplest form 7.2 Adding and subtracting fractions	Students' reflection, Clicker Questions	
21 st	Fractions 7.3 Multiplying fractions 7.4 Dividing fractions	Classroom Discussions	25 th National Holiday
28 th	7.5 Working with fractions mentally	Think, Pair, Share, Questioning	

February			
4 th	Unit 14 - Ratios and proportion 14.1 Comparing and using ratios 14.2 Solving problems	Peer Discussion, Questioning Students' Reflection	
11 th	Unit 11 – Percentages 11.1 Using mental methods 11.2 Comparing different quantities	Clicker Questions, Kahoot!	
18 th	Percentages 11.3 Percentage changes	Think, Pair, Share, Classroom Discussion, Questioning	21-22 nd Half Term
25 th	11.4 Practical examples	Clicker Questions, Kahoot!	
March (10 th Ramadan Starts)			
3 rd	Unit 13 - Equations and inequalities 13.1 Solving linear equations 13.2 Solving problems	Classroom Discussion, Clicker Questions	
10 th	Equations and inequalities 13.6 Inequalities	Peer Discussion, Students' Reflection, unit Assessment	
17 th	Unit 4 - Length, mass and capacity Reminder for Conversions 4.1 Solving problems involving measurements	Clicker Questions, Kahoot!	
24 th	4.2 Solving problems involving average speed	Peer Discussion, Questioning, Short Quiz	
April			
31 st	Length, mass and capacity 4.3 Using compound measures	Unit Assessment	
7 th	8.3 Pythagoras' Theorem	Peer Discussion, Clicker Questions	10-11 th Eid Holiday
14 th	8.3 Pythagoras' Theorem	Classroom Discussion, Students' Reflection, Short Quiz	
21 st	Sequences 2.1 Generating sequences 2.2 Finding the nth term	Questioning, Classroom	25 th Spring Break

28 th	Spring Break		
May			
5 th	Sequences 2.3 Finding the inverse of a function	Classroom Discussion, Students' Reflection,	7 th Start of Term 2
12 th	Unit 16 - Probability 16.1 Calculating probabilities. 16.2 Sample space diagram	Unit Assessment	
19 th	Planning and collecting data (mean, median, mode & range)	Revision guide	
26 th	Simultaneous equations 13.3 & 13.4	Questioning	
June			
2 nd	Introduction to IGCSE Mathematics		6 th End of year assembly
9 th	Introduction to IGCSE Mathematics		12 th Last day for Students 13 th Last day for Teachers
End of Year			
<u>Additional Notes:</u>			