Remote Curriculum

Year 9 Maths

How it Works:

1. Find the correct week commencing row.
2. Find today's day - There are 2 different lessons in each day – you won't run out of work.
3. Choose a lesson – hold ctrl and click the chosen link.

   If you don't recognise the work, it appears too difficult or the link doesn't load;

   Try another task – look at the previous/next lesson or look at other days.

4. Some lessons have links to PowerPoints and other resources beneath the video and/or Starter Quiz
5. Complete any starter quizzes.
   a. Write your answer down
   b. Mark your answers and write down any corrections
6. Watch the videos and take notes.
7. Pause if/when instructed to do so to answer questions or respond.
8. Complete and go onto the next one.

Week Commencing	Week	Lesson	Title	Lesson 1 **Hold ctrl and click**	Lesson 2 **Hold ctrl and click**
9/09/24	B	Monday	*Geometrical Properties: Similarity and Pythagoras theorem*	Checking understanding of similarity	Checking understanding of congruence
		Tuesday		Checking understanding of congruence	Similarity in shapes
		Wednesday		Similarity in shapes	Congruence in shapes
		Thursday		Congruence in shapes	Congruent, similar or neither
		Friday		Congruent, similar or neither	Rotational symmetry
16/09/24	A	Monday		Rotational symmetry	Congruent triangles (SSS)
		Tuesday		Congruent triangles (SSS)	Congruent triangles (SAS)
		Wednesday		Congruent triangles (SAS)	Congruent triangles (ASA and AAS)
		Thursday		Congruent triangles (ASA and AAS)	Congruent triangles (RHS)
		Friday		Congruent triangles (RHS)	Applying the criteria for congruence
23/09/24	B	Monday		Applying the criteria for congruence	Demonstrating Pythagoras' theorem
		Tuesday		Demonstrating Pythagoras' theorem	Length of the hypotenuse
		Wednesday		Length of the hypotenuse	Length of a shorter side

		Thursday		Length of a shorter side	Determining which side
		Friday		Determining which side	Pythagoras' theorem in context
30/09/24	A	Monday		Pythagoras' theorem in context	Problem solving with similarity and Pythagoras' theorem
		Tuesday		Problem solving with similarity and Pythagoras' theorem	Checking understanding of similarity
		Wednesday		Checking understanding of similarity	Checking understanding of congruence
		Thursday		Checking understanding of congruence	Similarity in shapes
		Friday		Similarity in shapes	Congruence in shapes
7/10/24	B	Monday		Congruence in shapes	Congruent, similar or neither
		Tuesday		Congruent, similar or neither	Rotational symmetry
		Wednesday		Rotational symmetry	Congruent triangles (SSS)
		Thursday		Congruent triangles (SSS)	Congruent triangles (SAS)
		Friday		Congruent triangles (SAS)	Congruent triangles (ASA and AAS)
14/10/24	A	Monday		Congruent triangles (ASA and AAS)	Congruent triangles (RHS)
		Tuesday	*Probability*	Equally likely outcomes	Non-equally likely outcomes
		Wednesday		Non-equally likely outcomes	The scale of likelihoods
		Thursday		The scale of likelihoods	Experiments to determine how likely an outcome is
		Friday		Experiments to determine how likely an outcome is	Using lists to display outcomes for two events
21/10/24	B	Monday		Using lists to display outcomes for two events	Using two-way tables to display outcomes for two events
		Tuesday		Using two-way tables to display outcomes for two events	Using an outcome tree to display outcomes for two events
		Wednesday		Using an outcome tree to display outcomes for two events	Using a Venn diagram to display outcomes for two events
		Thursday		Using a Venn diagram to display outcomes for two events	Comparing representations of outcomes for two events
		Friday		Comparing representations of outcomes for two events	Using lists to display outcomes for more than two events
4/11/24	A	Monday		Using lists to display outcomes for more than two events	Using an outcome tree to display outcomes for more than two events
		Tuesday		Using an outcome tree to display outcomes for more than two events	Using a Venn diagram to display outcomes for more than two events
		Wednesday		Using a Venn diagram to display outcomes for more than two events	Comparing representations of outcomes for more than two events

		Thursday		Comparing representations of outcomes for more than two events	Problem solving with possible outcomes
		Friday		Problem solving with possible outcomes	Using lists to display outcomes for two events
11/11/24	B	Monday		Using lists to display outcomes for two events	Using two-way tables to display outcomes for two events
		Tuesday		Using two-way tables to display outcomes for two events	Using an outcome tree to display outcomes for two events
		Wednesday		Using an outcome tree to display outcomes for two events	Using a Venn diagram to display outcomes for two events
		Thursday	*Probability*	Checking listing possible outcomes	The probability scale
		Friday		The probability scale	Calculating theoretical probabilities from lists (one event)
18/11/24	A	Monday		Calculating theoretical probabilities from lists (one event)	Calculating theoretical probabilities from a table (one event)
		Tuesday		Calculating theoretical probabilities from a table (one event)	Calculating theoretical probabilities from probability tree diagrams (one event)
		Wednesday		Calculating theoretical probabilities from probability tree diagrams (one event)	Calculating theoretical probabilities from Venn diagrams (one event)
		Thursday		Calculating theoretical probabilities from Venn diagrams (one event)	Comparing multiple representations to calculate theoretical probabilities
		Friday		Comparing multiple representations to calculate theoretical probabilities	Summing probabilities
25/11/24	B	Monday		Summing probabilities	Calculating theoretical probabilities from two-way tables (two events)
		Tuesday		Calculating theoretical probabilities from two-way tables (two events)	Calculating theoretical probabilities from Venn diagrams (two events)
		Wednesday		Calculating theoretical probabilities from Venn diagrams (two events)	Calculating theoretical probabilities from probability trees (two events)
		Thursday		Calculating theoretical probabilities from probability trees (two events)	Comparing multiple representations to calculate theoretical probabilities for combined events
		Friday		Comparing multiple representations to calculate theoretical probabilities for combined events	Problem solving with theoretical probability
2/12/24	A	Monday		Problem solving with theoretical probability	Checking listing possible outcomes
		Tuesday		Checking listing possible outcomes	The probability scale
		Wednesday		The probability scale	Calculating theoretical probabilities from lists (one event)

		Thursday		Calculating theoretical probabilities from lists (one event)	Calculating theoretical probabilities from a table (one event)
		Friday		Calculating theoretical probabilities from a table (one event)	Calculating theoretical probabilities from probability tree diagrams (one event)
9/12/24	B	Monday		Calculating theoretical probabilities from probability tree diagrams (one event)	Calculating theoretical probabilities from Venn diagrams (one event)
		Tuesday		Calculating theoretical probabilities from Venn diagrams (one event)	Comparing multiple representations to calculate theoretical probabilities
		Wednesday		Comparing multiple representations to calculate theoretical probabilities	Summing probabilities
		Thursday	*Pythagoras Recap*	Demonstrating Pythagoras' theorem	Length of the hypotenuse
		Friday		Length of the hypotenuse	Length of a shorter side
16/12/24	B	Monday		Length of a shorter side	Determining which side
		Tuesday		Determining which side	Pythagoras' theorem in context
		Wednesday		Pythagoras' theorem in context	Problem solving with similarity and Pythagoras' theorem
		Thursday		Problem solving with similarity and Pythagoras' theorem	Problem solving with similarity and Pythagoras' theorem
		Friday		Length of the hypotenuse	Length of a shorter side

Lesson 3 **Hold ctrl and click**
0613 Factors and Multiples
0686 Lowest Common Multiple
0687 Highest Common Factor
0685 Highest Common Factor
0748 Highest Common Factors and Lowest Common Multiples – Listing Method 2
0617 Highest Common Factors and Lowest Common Multiples – Venn Diagram
0608 Triangular and Prime Numbers
0609 Triangular and Prime Numbers
0879 Square and Cube Roots and Basic Powers
0611 Powers and Roots
0883 Use of Index Notation for Powers of 10 in Calculations
0884 Laws of Indices and Re-writing with the same Base
0991 Raising to another Exponent and Fractional Indices
0885 Using Negative and Fractional Indices

0747 Factors, Multiples and Primes
0167 Prime Factor Decomposition
0616 Prime Factorisation
0827 Primes, Product of Primes: Venn Diagram Method
0749 Highest Common Factors and Lowest Common Multiples – Prime Factor Decomposition
0588 Addition and Subtraction Problems
0021 Multiplying Integers
0025 Dividing Integers
0145 Add and Subtract Decimals
0679 Adding and Subtracting Decimals
0027 Solving Problems by Multiplying and Dividing Integers and Decimals
0159 Multiply and Divide Positive and Negative Numbers
0031 Using Negative Numbers in Context
0159 Multiply and Divide Using Positive and Negative Numbers
0014 Ordering Negative Numbers
0603 Ordering Negative Numbers
0683 Adding and Subtracting Negative Numbers 2
0605 Multiply and Divide Negative Numbers
0612 Bidmas
0681 Bidmas

0041 Factors and Multiples	0245 Multiples and Lowest Common Multiples
L0043 Lowest Common Multiple	0114 Lowest Common Multiple

0042 highest Common Factors	0113 Highest Common Factors
Highest Common Factors	0166 Highest Common Factor and Lowest Common Multiple
Factor Polygons	0615 Highest Common Factors and Lowest Common Multiples – Listing Method 1
Common Multiples	0826 Factors, Highest Common Factors, Multiples and Lowest Common Multiples
Square Numbers	0110 Square and Cube Numbers
0034 Triangular, Square and Cube Numbers	Square and Cube Numbers
Square Roots and Cube Roots	0038 Squares and Square Roots. Cubes and Cube Roots
0037 Powers and Roots	
Mayan Numbers	0101 Multiplication and Division by Powers of 10
Base 10 and Base 5	Expressing Powers of Different Bases
Operations in Bases	Exposing Factors
Indices	0047 Using Index Notation – Prime Decomposition
	0987 Laws of Indices for Multiplication
Index Notation	0988 Laws of Indices for Division
Laws of Indices	Negative Indices
	0989 Zero and Negative Indices
	Indices and Power of Zero
Index Laws	Fractional Indices
0033 Recognise Odd and Even Two-Digit Prime Numbers	0112 Factors and Prime Factors
0165 Prime Numbers	0046 Prime Factor Decomposition
Prime Building Blocks	0167 Prime Factor Decomposition
0046 Prime Factor Decomposition	0244 Factors, Prime Numbers and Highest Common Factors

0045 – Prime Factors and Venn Diagrams	0047 Using Index Notation – Prime Decomposition
Basic Addition	Further Addition
Basic Multiplication	Further Multiplication
Basic Division	0022 Dividing Integers
0009 Adding Integers and Decimals	0010 Subtracting Integers and Decimals
0097 Adding Integers and Decimals	0587 Add and Subtract Integers and Decimals
0108 Adding and Subtracting Negative Numbers	0146 Multiply Integers and Decimals
0157 Ordering Negative Numbers	0158 Addition and Subtraction Problems with Negative Numbers
0026 Ordering Positive and Negative Integers	0029 Addition and Subtraction with Positive and Negative Integers
0022 Dividing Integers	0147 Divide Integers and Decimals
0013 Ordering Positive Integers	0107 Ordering Negative Numbers
Representing Integers	0011 Place Value for Integers and Decimals
0098 Subtracting Integers and Decimals	0604 Add and Subtract Negative Numbers 1
0030 Multiply and Divide Positive and Negative Integers	0109 Multiplying and Dividing Negative numbers
0039 Order of Operations (Bidmas)	0103 Bidmas
0151 Four Operations and Money Problems 0149 Order of Operations	0150 Apply the Four Operations
Basic Addition	Further Addition
Basic Multiplication	Further Multiplication
Basic Division	0022 Dividing Integers
0009 Adding Integers and Decimals	0010 Subtracting Integers and Decimals
0097 Adding Integers and Decimals	0587 Add and Subtract Integers and Decimals
0108 Adding and Subtracting Negative Numbers	0146 Multiply Integers and Decimals

0157 Ordering Negative Numbers	0158 Addition and Subtraction Problems with Negative Numbers
0026 Ordering Positive and Negative Integers	0029 Addition and Subtraction with Positive and Negative Integers
0022 Dividing Integers	0147 Divide Integers and Decimals
0013 Ordering Positive Integers	0107 Ordering Negative Numbers
Representing Integers	0011 Place Value for Integers and Decimals
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