<b>YEAR 10</b>	0 Summer 2021			Foundation			
ATES	UNIT / LESSON	PRIOR KNOWLEDGE	GRADE GRADE OBJECTIVES				
		Coloridate with free diago	FROM	то	Use frequency data and the advances		
19/04/2021	13.5 Tree diagrams	Calculate with fractions.	3	5	Use frequency trees and tree diagrams.		
		List the possible outcomes for two events.			Work out probabilities using tree diagrams.		
		Work out the probability of something not			Understand independent events.		
		happening. Calculate probabilities.					
26/04/2021	13.6 More tree diagrams	Calculate with and simplify fractions.	3	5	Understand when events are not independent.		
		Work out probabilities using tree diagrams.			Solve probability problems involving events that are not		
			2	-	independent.		
	14 Multiplicative reasoning	Interpret collectory a range of manufacting instruments	3	5			
		Interpret scales on a range of measuring instruments.					
		Convert between metric measures.					
		Understand ratio notation, and be able to write a					
		ratio in its simplest form.					
		Find a percentage of an amount and relate					
		percentages to decimals.					
		Rearrange equations and use these to solve problems.					
		Know speed = distance/time,					
		density = mass/volume.					
		Find the equation of a line from a graph.					
		Identify a graph showing direct proportion.					
03/05/2021	14.1 Percentages	Convert percentages to decimals.	4	4	Calculate a percentage profit or loss.		
		Express one number as a percentage of another.			Express a given number as a percentage of another in more comple		
		Work out percentage increases and decreases.			situations. Find the original amount given the final amount after a percentage		
		work out percentage increases and decreases.			increase or decrease		
	14.2 Growth and decay	Write powers of numbers in index form.	4	4	Find an amount after repeated percentage change.		
		Relate percentages to decimals.			Solve growth and decay problems.		
10/05/2021	14.3 Compound measures	Understand 'rate' as a mathematical concept.	3	4	Solve problems involving compound measures.		
		Substitute into and solve equations.					
		Rearrange equations.					
		Convert between metric units of volume.					
		Calculate the area of a trapezium.					
		Calculate the volume of a prism.					
	14.4 Distance, speed and time	Find speed in km/h, given distance travelled in	3	4	Convert between metric speed measures.		
		minutes.					
		Convert between metric units of length.			Calculate average speed, distance and time.		
					Use formulae to calculate speed and acceleration.		
	14.5 Direct and inverse	Identify graphs showing direct proportion.	3	5	Use ratio and proportion in measures and conversions.		
17/05/2021	proportion						
		Write a ratio as a unit ratio.			Use inverse proportions.		
ND OF TERM !	5 TEST			-			
	15 Constructions, loci and		1	4			
	bearings						
		Measure and draw lines.					

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		Write a ratio in the form 1 : m and in its simplest form. Know the 8 points of the compass. Draw a net of a 3D shape. Know clockwise, anticlockwise. Identify congruent shapes.					
24/05/2021	15.1 3D solids	Recall names of common 2D shapes.	1	2	Recognise 3D shapes and their properties.	3	names 3-d shapes
					Describe 3D shapes using the correct mathematical words.	4	nets
		Identify names of 2D shapes from faces of 3D solids.	-		Understand the 2D shapes that make up 3D objects. Identify and sketch planes of symmetry of 3D shapes.	5	faces, edges vertices
	15.2 Plans and elevations	identity fiames of 2D shapes from faces of 5D solids.	3	3	identity and sketch planes of symmetry of 50 shapes.		
		Recall names of common 3D shapes.			Understand and draw plans and elevations of 3D shapes.		
		Know the properties of special triangles and quadrilaterals.			Sketch 3D shapes based on their plans and elevations.		
	15.3 Accurate drawings 1	Understand of the meaning of 'congruence'.	3	3	Make accurate drawings of triangles using a ruler, protractor and	22	congruent change
		Draw lines, angles and circles accurately			compasses. Identify SSS, ASA, SAS and RHS triangles as unique from a given	22	congruent shapes
					description.	28 + 31	drawing + measuring angles
					Identify congruent triangles	81,82,83	construction ASA, SAS, SSS
HALF TERM						<u> </u>	
07/06/2021	15.4 Scale drawings and maps	Work out scale factor of an enlargement.	2	3	Draw diagrams to scale.	283/284	
		Write a ratio in the form 1 : m, and write equivalent ratios.			Correctly interpret scales in real-life contexts.		
		Convert between metric measurements of length.			Use scales on maps and diagrams to work out lengths and distances.	285	
					Know when to use exact measurements and estimations on scale		
					drawings and maps.		
					Draw lengths and distances correctly on given scale drawings.	-	
	15.5 Accurate drawings 2	Knowledge of scale factors of enlargement.	3	3	Accurately draw angles and 2D shapes using a ruler, protractor and compasses.		
		Identify a solid from its net.			Construct a polygon inside a circle.	73/74	
					Recognise nets and make accurate drawings of nets of common 3D objects.		
14/06/2021	15.6 Constructions	Identify parallel and perpendicular lines.	4	4	Draw accurately using rulers and compasses.		
		Draw lines accurately.			Bisect angles and lines using rulers and compasses.	72/78	
	15.7 Loci and regions	Convert distances from map scale to real life distance	4	4	Draw loci for the path of points that follow a given rule.	75/76/77	
		and vice versa. Construct the perpendicular bisector.			Identify regions bounded by loci to solve practical problems.	73710777	-
	15.8 Bearings	Working out the complement to 180 or 360 (addition	2	4	Find and use three-figure bearings.		•
21/06/2021		and subtraction).	_	-		26/27	
		Recall the properties of angles at a point, angles on a			Use angles at parallel lines to work out bearings.		
		straight line, alternate and corrsponding angles.					
					Solve problems involving bearings and scale diagrams.		
	16 Quadratic equations and graphs	Square negative numbers. Substitute into formulae. Plot points on a coordinate grid. Expand single brackets and collect 'like' terms.	3	5			

28/06/2021	16.1 Expanding double brackets	Be able to work out area of a shape using algebraic terms.	3	4	Multiply double brackets.	
		Simplify algebraic expressions.			Recognise quadratic expressions.	F
		Multiply a single term over brackets.			Square single brackets.	F
	16.2 Plotting quadratic graphs	Be able to square terms.	4	4	Plot graphs of quadratic functions.	1
		Identify the equation of the mirror line.			Recognise a quadratic function.	Γ
		Copy and complete a table of values and plot a straight line graph.			Use quadratic graphs to solve problems.	
05/07/2021	16.3 Using quadratic graphs	Define the origin and x-axis on a graph.	4	5	Solve quadratic equations ax2 + bx + c = 0 using a graph.	Τ
		Copy and complete a table of values and plot a			Solve quadratic equations ax2 + bx + c = k	[
		quadratic graph.			Using a graph.	
•	16.4 Factorising quadratic	Work out factor pairs of negative numbers	4	5		T
12/07/2021	expressions					į
		Multiply double brackets.				
	16.5 Solving quadratic equations	Know that taking the square root of a number will	4	4		
19/07/2021	algebraically	result in both a positive and a negative answer.				
		Factorise quadratic expressions.				Ē
						f

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