Subject: Mathematics Year: 7

	Autumn Term		Spring	Spring Term		Summer Term	
	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	
Topics and links	SHAPE	SHAPE	NUMBER	NUMBER	ALGEBRA	SHAPE	
	Metric Units	2D shapes –	Decimals –	Place value –	Sequences –	Symmetry –	
	Converting metric	Perimeter	Ordering	Ordering	Linear sequences	Reflective	
	units	3D shapes –	Written calculations	Calculating	SHAPE	Rotational	
	2D shapes -	Classifying	Money –	Integers –	3D Shapes –	Transformations –	
	Classifying	2D representations	Calculations	Written calculations	Surface Area	Reflections	
	Area	Volume	Best buys	Number types –	Scale –	Rotations	
	Angles		Negative Number –	Factors, Multiples &	Scale drawing	Translations	
			Calculations	Primes	Map scales	Combined	
			Order of operations –	Types of number	Transformations –	transformations	
			Calculations	Powers & Roots –	Enlargements		
			ALGEBRA	Squares, cubes and			
			Graphs –	roots			
			Axes	SHAPE			
			Coordinates	Measures -			
				Time			
	Some quotes "Christiar	nity has been a major infl	uence on the mathemat	ical sciences. There is a v	videspread belief that Ch	ristianity and	
	mathematics were on o	opposing sides. This, how	vever, oversimplifies thin	gs and gives a false impr	ession of the developme	nt of the mathematics.	
	For example, four men	who perhaps did as muc	h as any to revolutionise	mathematics in the 16 th	and 17 th centuries, Cope	ernicus, Kepler, Galileo	
	and Newton, were all d	eeply religious Christians	s who saw their scientific	work as a religious und	ertaking.		
	Pythagoras developed	a world-view in which ma	athematics and religion v	vere completely linked. I	Pythagoras saw the beau	ty in the theory of	
Links with Christian	numbers and he saw th	is mathematical beauty	translated into musical b	eauty. From there he de	veloped a view of the wo	orld based on numbers	
beliefs and	and shapes. He believe	d that the Earth was a sp	here, not for any experiment	nental reason, but simpl	y because he believed th	at the sphere was the	
spiritual	most perfect shape, so	the Earth had to be a sp	here. He also believed th	at the Earth was not at t	he centre of the universe	e but that the Earth	
development	moved.						
opportunities	The argument is that m	athematical laws, in ord	er to be properly relied u	pon, must have attribut	es which indicate an orig	in in God. They are true	
	characteristics (which r	nakes them nersonal) "	i, cannot be dened of de	ereated (onnipotent), ar		anguage	

	1. Courage – Becoming confident in new mathematical skills. Being brave enough to answer and ask questions.
	2. Forgiveness – Working in pairs, small groups or as a whole class and accepting others' mistakes. Not blaming others for work that goes wrong.
	3. Honesty – Being able to admit to mistakes. Being fair when working with others in pairs, small groups or as a whole class. Being truthful about
Links with Sexey's Seven	mistakes made.
ethos	4. Kindness – Working in pairs, small groups or as part of a whole class and helping others when they find things difficult.
	5. Respect – Learning how to behave in a Maths classroom. Showing consideration of others in the classroom.
	6. Empathy – Understanding that one's peers are all different. Understanding other's difficulties with mathematics.
	7. Resilience – Completing tasks even when they are new and/or difficult. Recovering quickly from setbacks.

Subject: Mathematics

Year: 8

	Autumn Term		Sp	oring Term	Summer Term	
	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Topics and links	DATA Processing data – Types of data Averages of data Averages & spread from a list Averages from a frequency table Averages from a grouped frequency table Comparing data sets Box & whisker plots Stem & leaf	DATA Collecting data - Planning Sampling Presenting & interpreting data – Frequency tables Frequency diagrams	DATA Probability – Theoretical probability Experimental probability Venn diagrams Set notation NUMBER Fractions – Probability fractions	NUMBER Fractions – Understanding fractions Calculating with fractions Percentages – Non-calculator percentages Fractions/Decimals/Percentages – Decimal to percentage and percentage to decimal Fraction to decimal Decimal to fraction Ordering fractions, decimals & percentages	NUMBER Estimation & accuracy – Rounding Estimating & checking Exact calculations Percentages – Calculator percentages Powers & roots – Indices Standard Form	ALGEBRA SITIM – Expressions 1 Expressions 2 Real life formulae Approximate solutions by iteration
Links with Christian beliefs and spiritual development opportunities	diagrams percentages diagrams Some quotes "Christianity has been a major influence on the mathematical sciences. There is a widespread belief that Christianity and mathematics were on opposing sides. This, however, oversimplifies things and gives a false impression of the development of the mathematics. For example, four men who perhaps did as much as any to revolutionise mathematics in the 16 th and 17 th centuries, Copernicus, Kepler, Galileo and Newton, were all deeply religious Christians who saw their scientific work as a religious undertaking. Pythagoras developed a world-view in which mathematics and religion were completely linked. Pythagoras saw the beauty in the theory of numbers and he saw this mathematical beauty translated into musical beauty. From there he developed a view of the world based on numbers and shapes. He believed that the Earth was a sphere, not for any experimental reason, but simply because he believed that the sphere was the most perfect shape, so the Earth had to be a sphere. He also believed that the Earth was not at the centre of the universe but that the Earth moved. The argument is that mathematical laws, in order to be properly relied upon, must have attributes which indicate an origin in God. They are true everywhere (omnipresent), true always (eternal), cannot be defied or defeated (omnipotent), and are rational and have language characteristics (which makes them personal)."					

Links with Sexey's Seven ethos	 Courage – Becoming confident in new mathematical skills. Being brave enough to answer and ask questions. Forgiveness – Working in pairs, small groups or as part of a whole class and accepting others' mistakes. Not blaming others for work that goes wrong. Honesty – Being able to admit to mistakes. Being fair when working with others in pairs, small groups or as part of a whole class. Being truthful about mistakes made. Kindness – Working in pairs, small groups or as part of a whole class and helping others when they find things difficult. Respect – Learning how to behave in a Maths classroom. Showing consideration of others in the classroom. Empathy – Understanding that one's peers are all different. Understanding other's difficulties with mathematics.
	 6. Empathy – Understanding that one's peers are all different. Understanding other's difficulties with mathematics. 7. Resilience – Completing tasks even when they are new and/or difficult. Recovering quickly from setbacks.

Subject: Mathematics

Year: 9

	Autumn Term		Sprir	Spring Term		Summer Term	
	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	
Topics and links	NUMBER Ratio & Proportion – Ratio Proportion Measures – Compound measures	ALGEBRA Real-life graphs – Distance-Time Other graphs SITiM – Expressions 3 Expressions 4	ALGEBRA Algebraic manipulation – Expressions Linear equations – Solving Plotting graphs Inequalities – Solving Drawing graphs	DATA Bivariate diagrams – Scatter graphs ALGEBRA Rearranging – Changing the subject Real life formulae Involving factorising	ALGEBRA Rearranging – Changing the subject Graphs – Plotting graphs Reading graphs Coordinates SHAPE Right-angled triangles –	MENSURATION Volume – SHAPE Right-angled triangles – Trigonometry	
Links with Christian beliefs and spiritual development opportunities	Some quotes "Christianity has been a major influence on the mathematical sciences. There is a widespread belief that Christianity and mathematics were on opposing sides. This, however, oversimplifies things and gives a false impression of the development of the mathematics. For example, four men who perhaps did as much as any to revolutionise mathematics in the 16 th and 17 th centuries, Copernicus, Kepler, Galileo and Newton, were all deeply religious Christians who saw their scientific work as a religious undertaking. Pythagoras developed a world-view in which mathematics and religion were completely linked. Pythagoras saw the beauty in the theory of numbers and he saw this mathematical beauty translated into musical beauty. From there he developed a view of the world based on numbers and shapes. He believed that the Earth was a sphere, not for any experimental reason, but simply because he believed that the sphere was the most perfect shape, so the Earth had to be a sphere. He also believed that the Earth was not at the centre of the universe but that the Earth moved. The argument is that mathematical laws, in order to be properly relied upon, must have attributes which indicate an origin in God. They are true everywhere (omnipresent), true always (eternal), cannot be defied or defeated (omnipotent), and are rational and have language characteristics (which makes them personal)."						
Links with Sexey's Seven ethos	 Courage – Becoming Forgiveness – Worki wrong. Honesty – Being able truthful about mistake Kindness – Working 	; confident in new math ng in pairs, small group e to admit to mistakes. s made. in pairs, small groups o	nematical skills. Being bra is or as part of a whole cl Being fair when working ir as part of a whole class	ave enough to answer and ass and accepting others' with others in pairs, smal	l ask questions. mistakes. Not blaming ot I groups or as part of a w they find things difficult	hers for work that goes hole class. Being	

5. Respect – Learning how to behave in a Maths classroom. Showing consideration of others in the classroom.

 6. Empathy – Understanding that one's peers are all different. Understanding other's difficulties with mathematics. 7. Resilience – Completing tasks even when they are new and/or difficult. Recovering quickly from setbacks.

Subject: Mathematics Year: 10

	Autumn Term		Spring	g Term	Summer Term		
Topics and	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	
links	SHAPE Angles – Angle reasoning Congruency – Congruent shapes Congruent triangles Similarity – Similar shapes Similar triangles Similar areas & volumes Circles – Circle parts Circle theorems	SHAPE Vectors - Vector notation Vector drawings Vector maths Vector geometry Vector equations Mensuration – Circles Surface area	SHAPE Constructions & Loci – Bisectors Triangles Angles Polygons Loci Map scales & bearings – Bearings	SHAPE Scalene triangles – Trigonometry Bearings NUMBER Powers & roots - Fractional & negative indices Surds	ALGEBRA Simultaneous linear equations – Solving Quadratic equations – Plotting Solving	ALGEBRA Graphs – Plotting graphs Equations of circles Recognise & sketch graphs Trig graphs – Plotting trig graphs Recognise & sketch trig graphs Reading trig graphs Transforming graphs – Translations Reflections Stretching Transforming trig	
Links with Christian beliefs and spiritual development opportunities	Some quotes "Christianity has been a major influence on the mathematical sciences. There is a widespread belief that Christianity and mathematics were on opposing sides. This, however, oversimplifies things and gives a false impression of the development of the mathematics. For example, four men who perhaps did as much as any to revolutionise mathematics in the 16 th and 17 th centuries, Copernicus, Kepler, Galileo and Newton, were all deeply religious Christians who saw their scientific work as a religious undertaking. Pythagoras developed a world-view in which mathematics and religion were completely linked. Pythagoras saw the beauty in the theory of numbers and he saw this mathematical beauty translated into musical beauty. From there he developed a view of the world based on numbers and shapes. He believed that the Earth was a sphere, not for any experimental reason, but simply because he believed that the sphere was the most perfect shape, so the Earth had to be a sphere. He also believed that the Earth was not at the centre of the universe but that the Earth moved. The argument is that mathematical laws, in order to be properly relied upon, must have attributes which indicate an origin in God. They are true everywhere (omnipresent), true always (eternal), cannot be defied or defeated (omnipotent), and are rational and have language characteristics (which makes them personal)."						
Links with Sexey's Seven ethos	 Courage – Becoming co Forgiveness – Working Honesty – Being able to mistakes made. 	onfident in new mathematic in pairs, small groups or as a o admit to mistakes. Being fa	al skills. Being brave eno a whole class and accept air when working with ot	ugh to answer and ask quing others' mistakes. Not hers in pairs, small group	uestions. blaming others for wor os or as a whole class. B	k that goes wrong. eing truthful about	

4. Kindness – Working in pairs, small groups or as part of a whole class and helping others when they find things difficult.
5. Respect – Learning how to behave in a Maths classroom. Showing consideration of others in the classroom.
6. Empathy – Understanding that one's peers are all different. Understanding other's difficulties with mathematics.
7. Resilience – Completing tasks even when they are new and/or difficult. Recovering quickly from setbacks.

Subject: Mathematics

Year: 11

	A	utumn Term	Sprin	Spring Term		
Topics and	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
links	DATA Probability – Basic probability & experiments Combined events & probability diagrams Statistics – Sampling Interpreting & representing data Analysing data Misrepresenting data Scatter diagrams Outliers	NUMBER Ratio, Proportion and Rates of Change – Discrete growth & decay ALGEBRA Functions – Language of functions Graphs of equations & functions – Interpreting graphs	SHAPE Plane Isometric Transformations – Transformations Triangle Mensuration – Pythagoras Trigonometry	Revision Gaps filled from previous diagnostic sheets	Revision using past papers and diagnostic sheets from November mocks and then February/March mocks	Revision using past papers
Links with Christian beliefs and spiritual development opportunities	Some quotes "Christianity has been a major influence on the mathematical sciences. There is a widespread belief that Christianity and mathematics were on opposing sides. This, however, oversimplifies things and gives a false impression of the development of the mathematics. For example four men who perhaps did as much as any to revolutionise mathematics in the 16 th and 17 th Centuries, Copernicus, Kepler, Galileo and Newton, were all deeply religious Christians who in many ways saw their scientific work as a religious undertaking. Pythagoras developed a world-view in which mathematics and religion were completely linked. Pythagoras saw the beauty in the theory of numbers and he saw this mathematical beauty translated into musical beauty. From there he developed a view of the world based on numbers and shapes. He believed that the Earth was a sphere, not for any experimental reason, but simply because he believed that the Earth moved. The argument is that mathematical laws, in order to be properly relied upon, must have attributes which indicate an origin in God. They are true everywhere (omnipresent), true always (eternal), cannot be defied or defeated (omnipotent), and are rational and have language characteristics (which makes them personal)."					
Links with Sexey's Seven ethos	 Courage – Becomir Forgiveness – Worl Honesty – Being at mistakes made. Kindness – Working 	 Courage – Becoming confident in new mathematical skills. Being brave enough to answer and ask questions. Forgiveness – Working in pairs, small groups or as a whole class and accepting others' mistakes. Not blaming others for work that goes wrong. Honesty – Being able to admit to mistakes. Being fair when working with others in pairs, small groups or as a whole class. Being fair when working with others in pairs, small groups or as a whole class. Being truthful about mistakes made. Kindness – Working in pairs, small groups or as part of a whole class and helping others when they find things difficult. 				

5. Respect – Learning how to behave in a Maths classroom. Showing consideration of others in the classroom.
6. Empathy – Understanding that one's peers are all different. Understanding other's difficulties with mathematics.
7. Resilience – Completing tasks even when they are new and/or difficult. Recovering quickly from setbacks.