

SUBJECT: MATHEMATICS – Advanced +

Year Group	Year 11							
Rationale	To be fully fluent in mathematical thinking, problem solving and communication. To fine tune revision techniques and act upon the feedback given after mock and trial exams. To further develop resilience and to build student confidence in applying knowledge to AO2/AO3 style questions.							
	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2		
Topic/Skills	 Transformations Algebraic Proof Constructions & Loci 	 Congruency Circle Geometry Time Series Graphs Cubic & Exponential Graphs, Growth & Decay 	 Actions from Mock Exam Analysis and Past Papers: Revise Key Areas Focus on any learning opportunities missed due to COVID-19 (varies for each specific class) 	 Actions from Trial Exam Analysis and Past Papers: Revise Key Areas Continue to work through key topics missed due to COVID-19. 	■ Revision	Revision		
Knowledge	Transformations Pupils will describe and draw rotations using an angle, direction of turn and centre of rotation. Pupils will describe and draw reflections using a mirror line and its equation. Pupils will describe and draw translations using column vectors. Pupils will describe and draw enlargements using a scale factor including fractional and negative values and with/without a centre of enlargement. Pupils will know how to describe the effect of combined transformations as a single transformation and be able to describe the changes and invariance achieved after combined transformations. Algebraic Proof Pupils will know how to represent odd, even and consecutive integers algebraically.	Congruency Pupils will understand and know how to use the congruency conditions of SSS, SAS, ASA and RHS to prove the congruency of triangles. Pupils will be able to verify conditions of congruency using constructions. Pupils will be able to solve angle problems by first proving congruency. Circle Geometry Pupils will know how to find the equation of a tangent to a circle at a given point. Pupils will be able to find the equation of a tangent to a circle at a given point, finding the gradient of the line perpendicular to it or by using the given point. Time Series Graphs Pupils will be able to construct and interpret time-series graphs,	Pupils will engage in recapping lessons and revision sessions focussing on key identified topics through QLA's, efforts in Mock & Trial exams and pupils independent needs & requests. Complete internal exams and past papers.	Pupils will continue their revision lessons remaining focussed on their independent learning, improving their full understanding of all topics. Complete internal exams and past papers.	Pupils will continue their revision lessons remaining focussed on their independe nt learning, improving their full understand ing of all topics. Complete internal exams and past papers.	Pupils will continue their revision lessons remaining focussed on their independe nt learning, improving their full understand ing of all topics. Complete internal exams and past papers.		

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	Pupils will be able	commenting on				
	to solve 'show	trends.				
	that' style					
	problems using	Cubic &				
	consecutive	<u>Exponential</u>				
	integers, even &	<u>Graphs, Growth</u>				
	odd integers.	<u>& Decay</u>				
	Squares and	Pupils will				
	cubes.	recognise linear,				
	Pupils will know	quadratic, cubic,				
	how to solve	reciprocal, circle				
	formal proof	and exponential				
	questions using	graphs from				
	consecutive	their shapes.				
	integers, even and	Pupils will be				
	odd integers squares & cubes	able to sketch graphs of simple				
	as well as the	cubic functions				
	expansion and	given as three				
	simplification of	linear				
	brackets.	expressions and				
	brackete.	define the				
	Constructions &	function as a				
	Loci	single equation.				
	Pupils will be able	Pupils will know				
	to produce	and be able to,				
	standard ruler and	sketch/interpret				
	compasses	graphs of the				
	constructions.	exponential				
	Pupils will know	function $y = k^x$				
	what to construct	for positive				
	when solving loci	values of k and				
	problems.	integer values of				
	Pupils will be able	X				
	to find and	Pupils will know				
	describe regions	how to set up,				
	which satisfy a	solve and				
	combination of	interpret				
	loci and solve loci	exponential				
	and constructions	growth and				
	problems using	decay problems.				
	scale drawings and bearings.					
Skills	Transformations	Congruency	Complete internal	Complete	Engage in	Engage in
OKIIIS	Recognise,	Understand and	exams and past	internal exams	revision	revision
	describe and draw	use SSS, SAS,	papers.	and past papers.	and recap	and recap
	rotations using a	ASA and RHS	Engage in revision	Engage in	lessons	lessons
	centre of rotation,	conditions to	and recap lessons	revision and	focussing	focussing
	angle and	prove the	focussing on key	recap lessons	on key	on key
	direction.	congruency of	identified topics.	focussing on key	identified	identified
	Recognise,	triangles using		identified topics.	topics.	topics.
	describe and draw	formal				
	reflections using a	arguments.				
	mirror line and its	Verify conditions				
	equation.	of congruency				
	Recognise,	using				
	describe and draw	constructions.				
	translations using a column vector.	Solve angle				
	Recognise,	problems by first proving				
	describe and draw	congruency.				
	enlargements	oongraency.				
	using a centre of	Circle Geometry				
	enlargement (and	Find the				
	without) and a	equation of a				
	scale factor,	tangent to a				
	including	circle at a given				
	fractional and	point, by finding				
	negative values.	the gradient of				
	Describe the	the radius that				
	effect of combined	meets the circle				
	transformations as	at that point.				



a single transformation. Describe the changes and invariance achieved after combined transformations. Algebraic Proof Know how to represent odd, even and consecutive integers algebraically. Solve 'show that' style problems using consecutive integers, squares, cubes, even and odd integers. Solve formal proof questions using consecutive integers, squares, cubes, even and odd integers, as well as the expansion and simplification of brackets.

Constructions & Loci

Produce standard ruler and compasses constructions: bisect a given line or angle; a perpendicular to a given line from/at a given point; angles of 90°, 60°, 45° and 30°; a perpendicular bisector of a line segment.

Construct when solving loci problems: a region bounded by a circle and an intersecting line; a given distance from a point; a given distance from a line; equal distances from two points; equal distances from two line segments; regions which may be defined by 'nearer to' or 'greater than'. Find and describe regions which satisfy a

Find the equation of a tangent to a circle at a given point by finding the gradient of the line perpendicular to it or by using the given point. **Time Series** Graphs Construct and interpret timeseries graphs, commenting on trends.

Cubic & Exponential Graphs, Growth & Decay Recognise a linear, quadratic, cubic. reciprocal, circle and exponential graph from its shape. Sketch graphs of simple cubic functions given as three linear expressions and define the function as a single equation by expanding the brackets. Recognise, sketch and interpret graphs of the exponential function $y = k^x$ for positive values of k and integer values of Set up, solve and interpret exponential

growth and

decay problems.

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Assessments Formative	combination of loci. Solve loci and constructions problems using scale drawings and bearings. Assessment 16 1 Open book End-of-topic quizzes. Regular use of whiteboards in	End-of-topic quizzes. Regular use of whiteboards in lessons.	End-of-topic quizzes. Regular use of whiteboards in lessons.	End-of-topic quizzes. Regular use of whiteboards in lessons.	End-of- topic quizzes. Regular use of whiteboard s in	
Assessments Summative	lessons Mock exam Paper 1	Mock exam Papers 2 & 3	Trial Exams		lessons. GCSE Exams P1	GCSE Exams P2 & P3
Homework	Mathswatch: Assessment 16 revision Paper 1 Revision Shadow paper (set A)	Mock shadow paper 6 x half shadow papers Shadow Paper (set B)	Shadow paper (set C)	Mathswatch: Trial revision 6x half shadow papers Shadow Paper (set C)	Predicted papers 1,2,3	Predicted papers 2,3



SUBJECT: MATHEMATICS – Advanced

Year Group	Year 11						
Rationale	To be capable and confident in mathematical thinking, problem solving and communication. To fine tune revision techniques and act upon the feedback given after mock and trial exams. To further develop resilience and to build student confidence in applying knowledge to AO2/AO3 style questions.						
	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2	
Topic/Unit	 Transformations Algebraic Proof Constructions & Loci 	 Congruency Time Series Graphs Cubic, Exponential & Reciprocal Graphs 	 Actions from Mock Exam Analysis and Past Papers: Revise Key Areas Focus on any learning opportunities missed due to COVID-19 (varies for each specific class). 	 Actions from Trial Exam Analysis and Past Papers: Revise Key Areas Continue to work through key topics missed due to COVID-19. 	 Revision 	Revision	
Knowledge	Transformations Pupils will describe and draw rotations using an angle, direction of turn and centre of rotation. Pupils will describe and draw reflections using a mirror line and its equation. Pupils will describe and draw translations using column vectors. Pupils will describe and draw enlargements using a scale factor including fractional and negative values and with/without a centre of enlargement. Pupils will know how to describe the effect of combined transformations as a single transformation and be able to describe the changes and invariance achieved after combined transformations. Algebraic Proof Pupils will know how to represent odd, even and consecutive integers	Congruency Pupils will understand and know how to use the congruency conditions of SSS, SAS, ASA and RHS to prove the congruency of triangles. Pupils will be able to verify conditions of congruency using constructions. Pupils will be able to solve angle problems by first proving congruency. Time Series Graphs Pupils will be able to construct and interpret time-series graphs, commenting on trends. Cubic, Exponential & Reciprocal Graphs Pupils will Recognise linear, quadratic, cubic, reciprocal, circle and exponential graphs from their shapes. Pupils will be able to sketch	Pupils will engage in recapping lessons and revision sessions focussing on key identified topics through QLA's, efforts in Mock & Trial exams and pupils independent needs & requests. Complete internal exams and past papers.	Pupils will continue their revision lessons remaining focussed on their independent learning, improving their full understanding of all topics. Complete internal exams and past papers.	Pupils will continue their revision lessons remaining focussed on their independe nt learning, improving their full understand ing of all topics. Complete internal exams and past papers.	Pupils will continue their revision lessons remaining focussed on their independe nt learning, improving their full understand ing of all topics. Complete internal exams and past papers.	

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Complete internal

Engage in revision

and recap lessons

focussing on key

identified topics.

exams and past

papers.

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Transformations Recognise, describe and draw rotations using a centre of rotation, angle and direction. Recognise, describe and draw reflections using a mirror line and its equation. Recognise, describe and draw translations using a column vector. Recognise, describe and draw enlargements using a centre of enlargement (and without) and a scale factor, including fractional and negative values. Describe the effect of combined transformations as a single transformation. Describe the changes and invariance achieved after combined transformations.

Algebraic Proof Know how to represent odd, even and consecutive integers algebraically. Solve 'show that' style problems using consecutive integers, squares, cubes, even and odd integers. Solve formal proof questions using consecutive integers, squares, cubes, even and odd integers, as well as the expansion and simplification of brackets. Constructions & Loci Produce standard ruler and compasses constructions:

bisect a given line

a perpendicular to

or angle;

point;

a given line

from/at a given

Congruency Understand and use SSS, SAS, ASA and RHS conditions to prove the congruency of triangles using formal arguments. Verify conditions of congruency using constructions. Solve angle problems by first proving congruency.

Time Series
Graphs
Construct and interpret timeseries graphs, commenting on trends.

Cubic, Exponential & Reciprocal <u>Graphs</u> Recognise a linear, quadratic, cubic. reciprocal, circle and exponential graph from its shape. Sketch graphs of simple cubic functions given as three linear expressions and define the function as a single equation by expanding the brackets. Recognise, sketch and interpret graphs of the exponential function $y = k^x$ for positive values of k and integer values of Draw graphs of the reciprocal function y = 1/xwith $x \neq 0$, using a table of values. For reciprocal graphs be able to state the value of x for

which the

defined.

equation is not

Complete internal exams and past papers.
Engage in revision and recap lessons focussing on key identified topics.

Engage in revision and recap lessons focussing on key identified topics. Engage in revision and recap lessons focussing on key identified topics.

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	angles of 90°, 60°, 45° and 30°; a perpendicular bisector of a line segment. Construct when solving loci problems: a region bounded by a circle and an intersecting line; a given distance from a point; a given distance from a line; equal distances from two points; equal distances from two line segments; regions which may be defined by 'nearer to' or 'greater than'. Find and describe regions which satisfy a combination of loci. Solve loci and constructions problems using scale drawings and bearings.					
Assessments Formative	Assessment 16 1 Open book End-of-topic quizzes. Regular use of whiteboards in lessons	End-of-topic quizzes. Regular use of whiteboards in lessons.	End-of-topic quizzes. Regular use of whiteboards in lessons.	End-of-topic quizzes. Regular use of whiteboards in lessons.	End-of-topic quizzes. Regular use of whiteboard s in lessons.	
Assessments Summative	Mock exam Paper 1	Mock exam Papers 2 & 3	Trial Exams		GCSE Exams P1	GCSE Exams P2 & P3
Homework	Mathswatch: Assessment 16 revision Paper 1 Revision Shadow paper (set A)	Mock shadow paper 6 x half shadow papers Shadow Paper (set B)	Shadow paper (set C)	Mathswatch: Trial revision 6x half shadow papers Shadow Paper (set C)	Predicted papers 1,2,3	Predicted papers 2,3



SUBJECT: MATHEMATICS - Core +

Year Group	YEAR 11						
Rationale	To be capable and confident in mathematical thinking, problem solving and communication. To fine tune revision techniques and act upon the feedback given after mock and trial exams. To further develop resilience and to build student confidence in applying knowledge to AO2/AO3 style questions.						
	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term	Summer Term 1	Summer Term 2	
Topic/Unit	 Construction s & Loci Vectors 	CongruencyCompound Measures	 Actions from Mock Exam Analysis and Past Papers: Revise Key Areas Focus on any learning opportunities missed due to COVID-19 (varies for each specific class). 	 Actions from Trial Exam Analysis and Past Papers: Revise Key Areas Continue to work through key topics missed due to COVID- 19. 	■ Revision	■ Revision	
Knowledge	Constructions & Loci Pupils will be able to produce standard ruler and compasses constructions. Pupils will know how to use constructions to solve loci problems. Pupils will know how to find and describe regions which satisfy combinations of loci and be able to solve loci and constructions problems using scale drawings and bearings. Vectors Pupils will know how to use column vectors to describe vectors, to represent vectors graphically and identify which vectors are parallel. Pupils will be able to calculate,	Congruency Pupils will be able to identify by inspection, shapes that are congruent. Pupils will understand and use congruence criteria for triangles: SSS, SAS, ASA and RHS. Compound Measures Pupils will know how to use for calculations the compound measures of density, mass and volume, pressure, force and area and speed, distance and time. Pupils will be able to convert between metric speed measurement and use kinematics formulae to calculate speed and acceleration. Pupils will know how to use a calculator efficiently when working	Pupils will engage in recapping lessons and revision sessions focussing on key identified topics through QLA's, efforts in Mock & Trial exams and pupils independent needs & requests. Complete internal exams and past papers.	Pupils will engage in recapping lessons and revision sessions focussing on key identified topics through QLA's, efforts in Mock & Trial exams and pupils independent needs & requests. Complete internal exams and past papers.	Pupils will continue their revision lessons remaining focussed on their independent learning, improving their full understandin g of all topics. Complete internal exams and past papers.	Pupils will continue their revision lessons remaining focussed on their independent learning, improving their full understanding of all topics. Complete internal exams and past papers.	

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diagrams, the sum or difference of two vectors and represent this as a single column vector or diagram. Pupils will be able to calculate the scalar multiple of a vector and give the answer as a single column vector or diagram. Pupils will know how to use algebra to represent vectors and simple vector sums or differences. Skills Constructions & Lood Produce standard ruler and compasses constructions: object a given line from/at a given bisect a given line from/at a given point; angles of 90° and 45°;							T
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column vector or diagram. Pupils will be able to calculate the scalar multiple of a vector and give the answer as a single column vector or diagram. Pupils will know how to use algebra to represent vectors and simple vector sums or differences. Skills Constructions & Loci Produce standard ruler and compasses constructions: bisect a given line or angle; a perpendicular to a given line from/lat a given point; angles of 90° and 45°, a perpendicular bisector of a line segment. Construct when solving loci problems: Construct when solving loci problems: Compund deasures understand and use in calculations the compound measures of density, mass should be able to calculations the compound measures of density, mass should be able to calculations the compound measures of density, mass should be able to calculate and sine provided and use in calculations the compound measures of density, mass should be able to calculate and sine provided and use in calculations the compound measures of density, mass should be able to calculate and sine provided and use in calculations the compound measures of density, mass should be able to calculate and sine to calculate and the solution of the calculations the compound measures of density, mass should be able to calculate and the sale of the calculations the compound measures of density, mass should be able to calculate and the calculations the compound measures of density, mass should be able to calculate and the calculations the compound measures of density mass should be able to calculate and the calculations the compound measures of density mass should be an an and past papers. Engage in revision and recap lessons focusing on key identified topics. Compound the calculations the compound measures of density mass should be a single or density and the calculations the compound measures of density mass should be an an and past papers. Engage in revision and recap lessons focusing on key identified topics. Complete internal and past papers. Engage in revision and recap lessons focus							
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bisector of a line segment. calculations Construct the compound when solving measures of: loci problems: density, mass							
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when solving measures of: loci problems: density, mass							
loci problems: density, mass							
a region and volume;							
bounded by a pressure, force			•				
circle and an and area;			•				
intersecting speed,							
line; distance and							
a given time.							
distance from Convert							
a point; between							
a given metric speed			metric speed				
distance from measurements							
a line; With given		a line;					
equal formulae and							
distances from variables, use							
two points; kinematics							
equal formulae to							
distances from calculate							
two line speed and							
segments; acceleration.		segments;	acceleration.				
regions which Use			Use				
may be calculators							
defined by efficiently			efficiently				
when working		-			İ		İ

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	'nearer to' or 'greater than'. Find and describe regions which satisfy a combination of loci. Solve loci and constructions problems using scale drawings and bearings. Vectors Use column vectors to describe vectors. Represent vectors graphically from given column vectors which are parallel. Calculate using column vectors or diagrams the sum or difference of two vectors and represent this as a single column vector or diagram. Calculate using column vector or diagram. Calculate using column vector or diagram. Calculate using column vector or diagram. Use simple algebra to represent	with elements of time.				
	Calculate using column vectors the scalar multiple of a vector and give the answer as a single column vector or diagram. Use simple algebra to					
Assessments	vectors and simple vector sums or differences. Assessment	End-of-topic	End-of-topic	End-of-topic	End-of-topic	
Formative Formative	16 1 Open book End-of-topic quizzes. Regular use of whiteboards in lessons	Regular use of whiteboards in lessons.	Regular use of whiteboards in lessons.	Regular use of whiteboards in lessons.	Regular use of whiteboards in lessons.	
Assessments Summative	Mock exam Paper 1	Mock exam Papers 2 & 3	Trial Exams		GCSE Exams P1	GCSE Exams P2 & P3

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Homework	Mathswatch: Assessment 16 revision	Mock shadow paper 6 x half shadow	Shadow paper (set C)	Mathswatch: Trial revision 6x half shadow papers	Predicted papers 1,2,3	Predicted papers 2,3
	Paper 1 Revision Shadow paper (set A)	papers Shadow Paper (set B)		Shadow Paper (set C)		



MATHEMATICS: Curriculum map – Core

Year Group	Year 11							
Rationale	revision technique	To be capable and confident in mathematical thinking, problem solving and communication. To fine tune revision techniques and act upon the feedback given after mock and trial exams. To further develop resilience and to build student confidence in applying knowledge to AO2/AO3 style questions.						
	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2		
Topic/Unit	 Constructions & Loci Factors, Multiples & Primes revisit Using Pythagoras' Theorem 	Compound Measures Averages, Range & Tables Fractions & Mixed Numbers	 Actions from Mock Exam Analysis and Past Papers: Revise Key Areas Focus on any learning opportunities missed due to COVID-19 (varies for each specific class). 	 Actions from Trial Exam Analysis and Past Papers: Revise Key Areas Continue to work through key topics missed due to COVID-19. 	■ Revision	■ Revision		
Knowledge	Constructions & Loci Pupils will be able to produce standard ruler and compasses constructions. Pupils will know how to use constructions to solve loci problems. Pupils will know how to find and describe regions which satisfy combinations of loci and be able to solve loci and constructions problems using scale drawings and bearings. Factors, Multiples & Primes revisit Pupils will be able to list all numbers that can be made from given sets of digits, define and identify factors, multiples and prime numbers, list all factors of a number systematically and list multiples of integers. Pupils will know how to write a number in prime factor form including using index notation.	Compound Measures Pupils will know and use the compound measures of density, mass and volume; pressure, force and area; speed, distance and time, all in simple cases. Pupils will be able to read values from a scale and use calculators efficiently when working with units of time. Averages, Range & Tables Pupils will be able to calculate the mean, mode, median and range from small data sets and from a frequency table. Pupils will develop their understanding of how to find the class interval containing the median and mode and how to find an estimated	Pupils will engage in recapping lessons and revision sessions focussing on key identified topics through QLA's, efforts in Mock & Trial exams and pupils independent needs & requests. Complete internal exams and past papers.	Pupils will engage in recapping lessons and revision sessions focussing on key identified topics through QLA's, efforts in Mock & Trial exams and pupils independent needs & requests. Complete internal exams and past papers.	Pupils will continue their revision lessons remaining focussed on their independent learning, improving their full understandin g of all topics. Complete internal exams and past papers.	Pupils will continue their revision lessons remaining focussed on their independent learning, improving their full understanding of all topics. Complete internal exams and past papers.		

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	Pupils will be	grouped				
	able to find	frequency				
	common factors	table.				
	and common					
	multiples of two	Fractions &				
	numbers.	<u>Mixed</u>				
	Pupils will know	<u>Numbers</u>				
	how to find the	Pupils will				
	LCM and HCF	know how to				
	including using	write a fraction				
	Venn diagrams	in its simplest				
	or listing.	form and find				
	Pupils will be	equivalent				
	able to solve	fractions.				
	simple problems	Pupils will be				
	using the HCF,	able to convert				
	LCM or prime	between				
	numbers.	improper				
		fractions and				
	Using	mixed				
	Pythagoras'	numbers.				
	Theorem	Pupils will				
	Pupils will know	know how to				
	•	use the four				
	how to use					
	Pythagoras'	rules of arithmetic with				
	theorem to find					
	missing lengths for a hypotenuse	fractions including				
	• •					
	and other	mixed				
	shorter side in	numbers.				
	given right angle	Pupils will				
	triangles. Pupils	know how to				
	will know how to	multiply and				
	write an answer	divide an				
	to a Pythagoras	integer by a				
	question using a	fraction and be				
	calculator in	able to find the				
	surd form.	reciprocal of				
	Pupils will be	an integer or a				
	able to justify	fraction.				
	whether a					
	triangle is right-					
	angled and					
	calculate the					
	length of a line					
	segment on a					
	co-ordinate grid					
	using					
	Pythagoras'					
	theorem.					
	uicoreiii.					
Skills	Constructions &	Compound	Complete internal	Complete	Engage in	Engage in
OKIIIS	Loci	Measures	exams and past	internal exams	revision and	revision and
	Produce	Understand				
		_	papers.	and past papers.	recap	recap lessons
	standard ruler and compasses	and use in	Engage in revision	Engage in	lessons	focussing on key
	r and compasses	calculations	and recap lessons	revision and	focussing on	identified topics.
			footioning as less	rooon laaare		
	constructions:	the compound	focussing on key	recap lessons	key identified	
	constructions: bisect a given	the compound measures of:	focussing on key identified topics.	focussing on key	topics.	
	constructions: bisect a given angle;	the compound measures of: density, mass				
	constructions: bisect a given angle; angles of 90°	the compound measures of: density, mass and volume;		focussing on key		
	constructions: bisect a given angle; angles of 90° and 45°,	the compound measures of: density, mass and volume; pressure, force		focussing on key		
	constructions: bisect a given angle; angles of 90° and 45°, a perpendicular	the compound measures of: density, mass and volume; pressure, force and area;		focussing on key		
	constructions: bisect a given angle; angles of 90° and 45°,	the compound measures of: density, mass and volume; pressure, force and area; speed,		focussing on key		
	constructions: bisect a given angle; angles of 90° and 45°, a perpendicular bisector of a line segment.	the compound measures of: density, mass and volume; pressure, force and area;		focussing on key		
	constructions: bisect a given angle; angles of 90° and 45°, a perpendicular bisector of a line	the compound measures of: density, mass and volume; pressure, force and area; speed, distance and time, all in		focussing on key		
	constructions: bisect a given angle; angles of 90° and 45°, a perpendicular bisector of a line segment. Construct when	the compound measures of: density, mass and volume; pressure, force and area; speed, distance and		focussing on key		
	constructions: bisect a given angle; angles of 90° and 45°, a perpendicular bisector of a line segment. Construct when solving simple	the compound measures of: density, mass and volume; pressure, force and area; speed, distance and time, all in		focussing on key		
	constructions: bisect a given angle; angles of 90° and 45°, a perpendicular bisector of a line segment. Construct when solving simple loci problems:	the compound measures of: density, mass and volume; pressure, force and area; speed, distance and time, all in simple cases.		focussing on key		
	constructions: bisect a given angle; angles of 90° and 45°, a perpendicular bisector of a line segment. Construct when solving simple loci problems: a region	the compound measures of: density, mass and volume; pressure, force and area; speed, distance and time, all in simple cases. Use calculators		focussing on key		
	constructions: bisect a given angle; angles of 90° and 45°, a perpendicular bisector of a line segment. Construct when solving simple loci problems:	the compound measures of: density, mass and volume; pressure, force and area; speed, distance and time, all in simple cases. Use		focussing on key		

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circle and an intersecting line; a given distance from a point; a given distance from a line; equal distances from two points; equal distances from two line segments; regions which may be defined by 'nearer to' or 'greater than'. Find and describe regions which satisfy a combination of simple loci. Factors, Multiples &

Primes revisit List all numbers that can be made from given sets of digits. Define and identify factors, multiples and prime numbers. List all factors of a number systematically. List multiples of integers. Write a number in prime factor form including using index notation. Find common factors and common multiples of two numbers. Find the LCM and HCF including using Venn diagrams or listing. Solve simple problems using the HCF, LCM or prime numbers.

Using
Pythagoras'
Theorem
Understand and
use Pythagoras'
theorem to find
missing lengths
in given right
angle triangles –
for a hypotenuse
and other
shorter side.

Give an answer to a Pythagoras

with elements of time. Read values from a speedometer.

Averages,

Calculate the

mean, mode,

Range &

Tables

median and range from small data sets. Find the median, mode and mean from a frequency table. Find the class interval containing the median and mode in a grouped frequency table. Find an estimated mean from a grouped frequency

table.

Mixed

Fractions &

Numbers Write a fraction in its simplest form and find equivalent fractions. Convert between improper fractions and mixed numbers. Add and subtract fractions including mixed numbers. Multiply and divide an integer by a fraction. Multiply and divide fractions including mixed numbers. Find the reciprocal of an integer or a

fraction.

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	question in surd form. Justify whether a triangle is right-angled using Pythagoras' theorem. Calculate the length of a line segment on a co-ordinate grid.					
Assessments Formative	Assessment 16 1 Open book End-of-topic quizzes. Regular use of whiteboards in lessons	End-of-topic quizzes. Regular use of whiteboards in lessons.	End-of-topic quizzes. Regular use of whiteboards in lessons.	End-of-topic quizzes. Regular use of whiteboards in lessons.	End-of-topic quizzes. Regular use of whiteboards in lessons.	
Assessments Summative	Mock exam Paper 1	Mock exam Papers 2 & 3	Trial Exams		GCSE Exams P1	GCSE Exams P2 & P3
Homework	Mathswatch: Assessment 16 revision Paper 1 Revision Shadow paper (set A)	Mock shadow paper 6 x half shadow papers Shadow Paper (set B)	Shadow paper (set C)	Mathswatch: Trial revision 6x half shadow papers Shadow Paper (set C)	Predicted papers 1,2,3	Predicted papers 2,3