Year 10 Higher Unit 8 – Transformations and constructions		
Learning Outcome	Students will know and remember	So that they can
Understand reflections.	That a reflection is a mirror image	Perform and describe reflections
	and needs a reflection line to	
	perform.	
	That some coordinates may be	
	invariant under a reflection.	
	That congruence means exactly the	
	same.	
	That horizontal and vertical lines are	
	in the form y= and x=.	
Understand translations.	That a translation moves the object	Perform and describe translations
	and therefore size, shape and	
	orientation do not change.	
	That a column vector describes a	
	translation.	- · · ·
Understand rotations.	That a rotation spins an object and	Perform and describe rotations
	needs a centre of rotation, a	
	direction and an angle to perform.	
Understand enlargements.	I hat an enlargement makes a shape	Perform and describe enlargements
	Digger or smaller.	
	scale factor is pooded	
	That a possible scale factor also has	
	the effect of rotating the object	
Understand the effect of	Invariant means coordinates may	Describe and transform 2D shapes using a
combined	remain unchanged when a specified	combination of transformations
transformations	transformation is applied.	Describe the changes and invariance
	That some coordinates may be	achieved by combinations of
	invariant under a transformation.	transformations.
Understand elevations.	That a face is a flat surface of a 3D	Draw sketches of 3D solids.
	shape.	Draw the front, side and plan elevation
	That a vertex is a corner of a 3D	of 3D solids.
	shape.	
	That an edge is where 2 faces join on	
	a 3D shape.	
	That a front elevation is the 2D shape	
	seen from the front.	
	That a side elevation is the 2D shape	
	seen from the side.	
	That a plan elevation is the 2D shape	
	seen from above.	
	That 3D solids can be drawn as their	
Lindovetoval cooloo oval	races.	1 Use and interpret many and esale
Understand scales and		1. Use and interpret maps and scale
bearings.		and uniter Dead and construct coale
		drawings, drawing lines and shapes
		to cooley. Estimate lengths using a
		coslo diagrami
		Scale uldyidili;
		2. Onuerstanu, uraw and measure
		solve bearings, Calculate Dedrings and
		on scaled many and find/mark and
		on scaled maps, and find/mark and
		measure bearings

 defined by 'nearer to' or 'greater than'; 4. Find and describe regions satisfying a combination of loci, including in 3D; 5. Use constructions to solve loci problems including with bearings; Know that the perpendicular distance from a point to a line is the shortest distance to the line.
In at rightAccurately construct a perpendicular bisector of a line segment.heans to cutAccurately construct a perpendicular to a given line through a given point.re notAccurately construct an angle bisector
 n angle braw and construct diagrams from given instructions, including: a region bounded by a circle and an intersecting line; a given distance from a point and a given distance from a line; equal distances from two points or two-line segments. Find and describe regions satisfying a combination of loci. Use and interpret maps and scale drawings. Estimate lengths using a scale diagram; Make accurate scale drawings from a diagram; Use accurate drawing to solve problems involving bearings and loci.
- Quadratics and Inequalities
rememberSo that they canion involvesFactorise a quadratic expression. Solve quadratic equations by factorising, using the quadratic formula or completing the square.tic $(x+a)(x+b)$ uadratic bots to thed rearranging that is $x =$ $x = x = x = x = x = x = x = x = x = x =$

Form and solve	That you can solve a pair of linear	Find the exact solutions of two simultaneous
simultaneous equations.	simultaneous equations using	equations and interpret in context.
	elimination or substitution.	
	That you may need to multiply an	
	equation to create the same number	
	of variables.	
	That you can only solve a linear and	
	quadratic simultaneous equation by	
	using substitution.	
	That the equation of a circle is given	
	by $x^2 + y^2 = r^2$	
	That the solution of simultaneous	
	equations represents the intersection	
	of the lines/curves.	
Form and solve linear	That inequalities can be represented	Construct inequalities to represent a set
inequalities.	on a number line.	shown on a number line and write down
	That a solid circle represents it	whole number values that satisfy an
	includes the number stated.	inequality.
	That errors can be expressed using	Solve linear inequalities and represent the
	inequality notation a ≤x< b	solution set on a number line
		lise inequality notation to specify error
		ose inequality notation to specify enor
		Intervals due to truncation or rounding.
	Year 10 Higher Unit 10 – Prol	bability
Learning Outcome	Students will know and remember	So that they can
Understand the language	The words impossible, unlikely, even	List the possible outcomes of an event.
and notation of	chance, likely, and certain describe	Calculate the probability of events
probability.	probability.	nappening or not.
	I hat the probability scale goes from U	Find missing probabilities.
	TO 1. Drahahilitu can ba writtan as a	Compare experimental and theoretical
	fraction desimal or percentage	probabilities.
	That mutually evolusive means that	
	events cannot hannen at the same	
	time	
	That the sum of probabilities is 1	
	Theoretical probability uses theory	
	Experimental probability uses results	
	from an experiment and can be	
	called relative frequency	
	That probabilities can be calculated	
	from frequency tables, frequency	
	trees and two-way tables.	
Use diagrams with	That a sample space diagram displays	Calculate probabilities from different
probabilities.	all possible outcomes.	diagrams.
	That venn diagrams use the following	Complete sample space diagrams, Venn
	notation: AUB A∩B	diagrams, two-way tables and tree
	That AUB means A or B and is called	diagrams.
	the union.	
	That $A \cap B$ means A and B and is called	
	the intersection.	
	That independent are mutually	
	exclusive.	•
Tear 10 Higher Unit 11 – Multiplicative reasoning		
Learning Outcome	Scudents will know and remember	So that they can

Understand compound	That speed = distance/time	Calculate real life problems involving speed,
measures	That the unit for speed is m/s	distance, time, force, pressure, area,
	That density = mass/volume	density, mass and volume.
	That the unit for density is kg/m^2	
	That pressure = force/area	
	That the unit for pressure is N/ m^2	
Calculate with	That direct proportion means that as	Set up, solve and interpret equations that
proportionality	one variable increases so does the	describe direct and inverse propertionality
proportionality.	other	describe direct and inverse proportionality.
	That direct proportion is in the form	
	That inverse proportion means that	
	as one variable increases the other	
	decreases	
	That direct proportion is in the form	
	v= k/x	
Calculate repeated	That a percentage increase or	Calculate compound interest and
proportional change	decrease can be calculated using a	depreciation problems
	multiplier	
	That compound interest is an	
	example of repeated percentage	
	change	
Understand geometric	That a geometric progression has a	Recognise and continue geometric
nrogressions	constant ratio	prograssion
	That a geometric progression is a	
	sequence	Find the rule to represent a geometric
	sequence.	progression.
	Year 10 Higher Unit 12 – Similarity a	nd Congruence
Learning Outcome	Students will know and remember	So that they can
<i>Learning Outcome</i> Understand the conditions	Students will know and remember That congruence means exactly the	So that they can Prove the congruence of triangles using
<i>Learning Outcome</i> Understand the conditions of similar triangles.	Students will know and remember That congruence means exactly the same.	So that they can Prove the congruence of triangles using formal arguments.
<i>Learning Outcome</i> Understand the conditions of similar triangles.	Students will know and remember That congruence means exactly the same. That when a shape is enlarged the	So that they can Prove the congruence of triangles using formal arguments. Identify similarity and corresponding scale
<i>Learning Outcome</i> Understand the conditions of similar triangles.	Students will know and remember That congruence means exactly the same. That when a shape is enlarged the size of angles are reserved.	So that they can Prove the congruence of triangles using formal arguments. Identify similarity and corresponding scale factors.
<i>Learning Outcome</i> Understand the conditions of similar triangles.	Students will know and remember That congruence means exactly the same. That when a shape is enlarged the size of angles are reserved. That the scale factor of an	So that they can Prove the congruence of triangles using formal arguments. Identify similarity and corresponding scale factors.
<i>Learning Outcome</i> Understand the conditions of similar triangles.	Students will know and remember That congruence means exactly the same. That when a shape is enlarged the size of angles are reserved. That the scale factor of an enlargement of a similar shape can	So that they can Prove the congruence of triangles using formal arguments. Identify similarity and corresponding scale factors. Solve problems involving frustums of cones using cimilar triangles
<i>Learning Outcome</i> Understand the conditions of similar triangles.	Students will know and remember That congruence means exactly the same. That when a shape is enlarged the size of angles are reserved. That the scale factor of an enlargement of a similar shape can be described as the ratio of the	So that they can Prove the congruence of triangles using formal arguments. Identify similarity and corresponding scale factors. Solve problems involving frustums of cones using similar triangles.
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	$v = \cos x$	
	y m con x	
	$y = \tan x$	
	. j / j / j	
Understand the	That reflections are algebraically	Translate and reflect graphs.
transformations of graphs.	represented by $y = -f(x)$, $y = f(-$	
	x).	
	That translations are algebraically represented by $y = f(x) + g(y) = 0$	
	function for the funct	
Understand the use of	That Pythagoras Theorem is $a^2 + b^2 =$	Calculate the area, sides or angles of
Pythagoras and	c^2	any triangle in 2D and 3D situations.
Trigonometry in 2D and £d	That the area of a triangle can be	Calculate the length of a diagonal of a
situations.	found using $\frac{1}{2}ab$ sin	cuboid and find the angle between a line
	That the sine rule can find	
	missing sides or angles in non-	
	That the sine rule needs a pair of	
	information.	
	That the sine rule is a/sinA=b/Sin B	
	That the cosine rule can find	
	missing sides or angles in non-	
	That the cosine rule is $a^2 = b^2 + c^2$	
	c ² -2bcCos A	
	That the sine and cosine rule can be	
	Year 10 Higher Unit 14 – Sta	tistics
Learning Outcome	Students will know and remember	So that they can
Understand types of data.	That qualitative data is data that can	Specify the problem and plan an
	only be written in words.	investigation
	That quantitative data can be	Construct and Interpret surveys and
	Counted. That a sample does not	Collect data.
	represent the entire population	
		Identify bias.
		Identify bias.
Understand cumulative	That cumulative frequency	Identify bias. Construct and interpret cumulative
Understand cumulative frequency and boxplots.	That cumulative frequency represents a running total.	Identify bias. Construct and interpret cumulative frequency tables and cumulative frequency
Understand cumulative frequency and boxplots.	That cumulative frequency represents a running total. That finding averages from a	Identify bias. Construct and interpret cumulative frequency tables and cumulative frequency graphs.
Understand cumulative frequency and boxplots.	That cumulative frequency represents a running total. That finding averages from a cumulative frequency represent estimates.	Identify bias. Construct and interpret cumulative frequency tables and cumulative frequency graphs. Use cumulative frequency graphs to estimate
Understand cumulative frequency and boxplots.	That cumulative frequency represents a running total. That finding averages from a cumulative frequency represent estimates. That boxplots need the following	Identify bias. Construct and interpret cumulative frequency tables and cumulative frequency graphs. Use cumulative frequency graphs to estimate frequencies, find medians, quartile values
Understand cumulative frequency and boxplots.	That cumulative frequency represents a running total. That finding averages from a cumulative frequency represent estimates. That boxplots need the following information: least/greatest value,	Identify bias. Construct and interpret cumulative frequency tables and cumulative frequency graphs. Use cumulative frequency graphs to estimate frequencies, find medians, quartile values and interquartile ranges.
Understand cumulative frequency and boxplots.	That cumulative frequency represents a running total. That finding averages from a cumulative frequency represent estimates. That boxplots need the following information: least/greatest value, median and quartiles.	Identify bias. Construct and interpret cumulative frequency tables and cumulative frequency graphs. Use cumulative frequency graphs to estimate frequencies, find medians, quartile values and interquartile ranges. Compare different sets of data.
Understand cumulative frequency and boxplots.	That cumulative frequency represents a running total. That finding averages from a cumulative frequency represent estimates. That boxplots need the following information: least/greatest value, median and quartiles.	Identify bias. Construct and interpret cumulative frequency tables and cumulative frequency graphs. Use cumulative frequency graphs to estimate frequencies, find medians, quartile values and interquartile ranges. Compare different sets of data. Draw and interpret box plots draw
Understand cumulative frequency and boxplots.	That cumulative frequency represents a running total. That finding averages from a cumulative frequency represent estimates. That boxplots need the following information: least/greatest value, median and quartiles.	Identify bias. Construct and interpret cumulative frequency tables and cumulative frequency graphs. Use cumulative frequency graphs to estimate frequencies, find medians, quartile values and interquartile ranges. Compare different sets of data. Draw and interpret box plots draw conclusions.
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Understand cumulative frequency and boxplots. Understand histograms.	That cumulative frequency represents a running total. That finding averages from a cumulative frequency represent estimates. That boxplots need the following information: least/greatest value, median and quartiles.	Identify bias. Construct and interpret cumulative frequency tables and cumulative frequency graphs. Use cumulative frequency graphs to estimate frequencies, find medians, quartile values and interquartile ranges. Compare different sets of data. Draw and interpret box plots draw conclusions. Identify outliers. Construct and interpret histograms. Estimate the mean and median from a
Understand cumulative frequency and boxplots. Understand histograms.	That cumulative frequency represents a running total. That finding averages from a cumulative frequency represent estimates. That boxplots need the following information: least/greatest value, median and quartiles. That histograms look like bar charts but have unequal bar widths.	Identify bias. Construct and interpret cumulative frequency tables and cumulative frequency graphs. Use cumulative frequency graphs to estimate frequencies, find medians, quartile values and interquartile ranges. Compare different sets of data. Draw and interpret box plots draw conclusions. Identify outliers. Construct and interpret histograms. Estimate the mean and median from a histogram

	That histograms use frequency density. That frequency density = frequency/ class width. That the median for a histogram is an estimate.	
Learning Outcome Students will know and remember So that they can		
Understand the graphical representation of quadratics.	That quadratic graphs are symmetrical. That the roots of a quadratic graph are found from factorising. That the roots of a quadratic graph are where the graph intersects the x axis. That the turning point of a quadratic graph is the minimum point or the vertex of the graph and is found from completing the square.	Sketch and identify quadratic graphs. Identify the line of symmetry of a quadratic graph. Find approximate solutions to quadratic equations using a graph. Interpret graphs of quadratic functions from real-life problems. Identify and interpret roots, intercepts and turning points of quadratic graphs.
Understand quadratic inequalities and their notation.	That to solve a quadratic inequality you must factorise. That set notation is $\{x: -3 < x < 5\}$	Solve quadratic inequalities. Represent the solution set for inequalities using set notation.
Understand iteration	That iteration is the repeated application of a function or process in which the output of each step is used as the input for the next iteration.	Use iteration with simple converging sequences. Use iteration to find approximate solutions to equations.