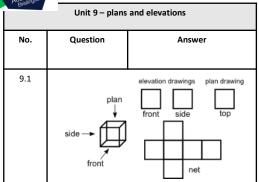


Year 10 – Maths – Spring 2



Unit 11 – loci				
No.	Question	Answer		
11.1	The four tests for congruence are	SSS ASA SAS RASH		
11.2	Triangles are similar if	All angles are the same (AAA) They are an enlargement of each other		

	Unit 10 – volume and surface	area
No.	Question	Answer
10.1	What is the area of a rectangle?	= length x width
10.2	What is the area of a triangle?	$= \frac{1}{2} base x perpendicular height$
10.3	What is the area of a trapezium?	$\frac{1}{2}(a+b) \times h$ "Half the sum of the parallel sides times the difference between them"
10.4	What is the area of a parallelogram?	=base x perpendicular height
10.5	What is a prism?	A 3D solid which has the same 2D shape running all the way through it
10.6	What is the volume of a prism?	Area of cross section x length
10.7	How do you find the surface area of a 3D solid?	The sum of the area of all the 2D faces
10.8	What is the volume of a cone?	$\frac{1}{3}\pi r^2 h$
10.9	How do you find the surface area of a cone?	$\pi r l + \pi r^2$
10.10	How do you find the volume of a square based pyramid?	$= \frac{1}{3} \times area \ of \ base \times h$
10.11	What is the volume of a sphere?	$\frac{4}{3}\pi r^3$
10.12	What is the surface area of a sphere?	$4\pi r^2$
10.13	Area scale factor	LSF ²
10.14	Volume scale factor	LSF ³

Unit H12 – further trigonometry (HIGHER ONLY)				
No.	Question	Answer		
12.1	Cosine Rule	$a^2 = b^2 + c^2 - 2bc \cos A$		
12.2	Area of a triangle	Area = $\frac{1}{2}$ absinC		
12.3	Sine Rule	$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$		

Date (week commencing)	Numbers to learn
25 th Feb	9.1
4 th Mar	10.1 – 10.7
11 th Mar	10.8 - 10.14
18 th Mar	10.8 – 11.2
25 th Mar	11.1 – 12.3
1 st Apr	9.1 – 12.3