Year 7 – Maths – Spring 2

Unit 10 - coordinates		
No.	**Question**	**Answer**
10.1	What does the x coordinate describe?	The horizontal location
10.2	What does the y coordinate describe?	The vertical location
10.3	What coordinate is the origin?	(0, 0)
10.4	What does equidistant mean?	At equal distances from a point
10.5	What is a line segment?	A portion of a line that connects two points
10.6	What is a midpoint?	A point that divides a line segment into two equal parts
10.7	What is a vertex?	The point where two edges meet
10.8	What is the name of this shape? 	Rectangle
10.9	What is the name of this shape? 	Rhombus
10.10	What is the name of this shape? 	Parallelogram
10.11	What is the name of this shape? 	Kite
10.12	What is the name of this shape? 	Square
10.12	What is the name of this shape? 	Triangle
10.13	What is a horizontal line?	A line that is parallel to the x axis
10.14	What is a vertical line?	A line that is parallel to the y axis
10.15	What is a line of symmetry?	A line of reflection where there is equal distance on either side of the line between the original and the image

Unit 11 – area of 2D shapes		
No.	**Question**	**Answer**
11.1	What is perimeter?	The total distance around the outside of a shape
11.2	What is area?	the space inside the boundary of a shape
11.3	What is a compound shape?	Combining two or more 2D shapes to form a new shape
11.4	What is a rectilinear shape?	Combining two or more rectangles to form a new shape. All sides meet at a right angle
11.5	How do you find the area of a compound shape?	The sum of the areas of the original shapes
11.6	How do you calculate the area of a rectangle?	Width x height
11.7	How do you calculate the area of a parallelogram?	Width x perpendicular height
11.8	How do you calculate the area of a triangle?	½ x base x height
11.9	What does congruent mean?	Identical and shape and size

Unit 12 – transformations		
No.	**Question**	**Answer**
12.1	What is translation?	When every point in the shape moves by the same distance in the same direction
12.2	What is a column vector?	Used to describe translations
12.3	What is rotation?	When a shape moves about a point of rotation
12.4	What three pieces of information do you need to rotate a shape?	1. Point of rotation 2. Degrees 3. Direction (clockwise or anticlockwise)
12.5	What is reflection?	When a point and it's reflection are equidistant from a line of reflection (as it would be seen in a mirror)
12.6	What is an isometry?	Transformations that do not affect the size or shape of an object
12.7	What is a single transformation?	A combination of more than one transformation
12.8	What is enlargement?	Changes the size of the shape by a scale factor from a centre point
12.9	What is the scale factor?	What all the sides are multiplied by to get the enlargement

Date (week commencing)	Numbers to learn
28th Feb	10.1-10.10
7th Mar	10.1-10.15
14th Mar	10.8-11.5
21st Mar	10.8-11.5
28th Mar	11.1-12.5
4th Apr	11.5-12.9