

SCHEME 5		
Autumn	Spring	Summer
<b>Terence the Troll &amp; WIM (year 7)</b>	Circumference and area of circles	Understand similar shapes and the effect of <b>enlargement</b> on area and volume
<b>Maths Investigation - loops (Year 8)</b>	Ratio and Proportion	<b>Probability space diagrams</b> and Understand and apply <b>relative frequency on context</b>
Find nth term of linear sequences (In year 7 can be incorporated with Terrance)	Construct and use <b>cumulative frequency</b> to find <b>median, quartiles</b> and <b>inter-quartile range</b> ; draw <b>box plots</b> and understand the link between the two	Explore bivariate data using scatter graphs; understand correlation; know that correlation does not imply causation
Solving Equations (Using function machine and Balance method)	Volume and <b>surface area</b> of right <b>prisms</b> (including cylinders)	Angles in <b>parallel</b> lines (extension - bearings)
Deduce and use formula for area of trapezium		
<b>Half term</b>	<b>Half term</b>	<b>Half term</b>
<b>Index notation</b> and laws (multiply, divide, power to a power, power of 0)	Understand and use the <b>equation</b> of a line in the form $y = mx + c$ (PK: Find nth term of linear sequences)	Constructing triangles (SAS, ASA, SSS) Loci, including perpendicular bisector of a line and angle bisectors; solve problems using these merged
<b>Standard index</b> form for large & small numbers (Ext: with calculations)	Calculations with fractions (use bar modelling throughout)	Find the original amount after a given percentage change
Estimated mean from <b>grouped</b> frequency table	<b>Expanding</b> brackets (use equivalence sign)	<b>Bearings</b> to measure direction, to include measurement of <b>reflex</b> angles + calculations with bearings including back bearings

Pythagoras' theorem (including exact answers)

**Factorising** single brackets (use equivalence sign)

