<table>
<tr><th>Date</th><th>Wk</th><th>Week</th><th>Units Studied & Learning Outcomes</th></tr>
<tr><td>2-Sep</td><td>A</td><td>1</td><td>Number (4)

<u>Unit Learning Outcomes</u>

GW You can calculate all four operations with negatives and addition and subtraction sums with decimals. Identify primes, squares, cubes, factors and multiples.

BI You can calculate all four operations with decimals and negative numbers. Identify HCF, LCM, Prime factors

EW You can apply all of the above in AO2 and A03 style questions.</td></tr>
<tr><td>9-Sep</td><td>B</td><td>2</td><td>Transformations (4)

<u>Unit Learning Outcomes</u>

GW you can perform a combination of transformations.

BI you can describe a combination of transformations.

EW. You can describe return transformations and make links between multiple translations and vector addition/subtraction.</td></tr>
<tr><td>16-Sep*</td><td>A</td><td>3</td><td>Algebra Skills (4)

<u>Unit Learning Outcomes</u>

GW you can expand single brackets and substitute values.

BI you can solve equations

EW you can rearrange formulae and solve equations combining all of the algebra skills you have learnt.

<table><tr><td>Prior (Y9)</td><td>Current</td><td>Next (Y11/12)</td></tr></table></td></tr>
<tr><td>23-Sep</td><td>B</td><td>4

RQ (PM lesson)</td><td>Four operations with fractions. (3)

<u>Unit Learning Outcomes</u>

GW you can calculate all four operations with proper fractions.
BI you can calculate all four operations with mixed numbers.
EW you can solve worded problems with fractions selecting the correct operation(s).</td></tr>
</table>

<table>
<tr><td>30-Sep</td><td>A</td><td>5</td><td>Relative Frequency and Frequency Trees (3)

<u>Unit Learning Outcomes</u>

GW you can calculate the experimental probability and complete a frequency tree.

BI you can use a given experimental probability to make estimations. You can use a frequency tree to make calculations.

EW you can plot and interpret relative frequencies on a graph.</td></tr>
<tr><td>7-Oct</td><td>B</td><td>6</td><td>Fractions, Decimals and Percentages (4)

<u>Unit Learning Outcome</u>

GW You can convert between fractions, decimals and percentages.

BI you can represent one quantity as a percentage of another and make comparisons.

EW you can solve multi combo fraction, decimal and percentage problems.</td></tr>
<tr><td>14-Oct</td><td>A</td><td>RQ (PM lesson)</td><td>Patterns in number, sequences and nth term.(3)

<u>Unit Learning Outcomes</u>

GW you can generate and describe a linear and geometric sequence

BI you can find the nth term of an arithmetic sequence and generate a quadratic sequence.

EW you can make conclusions from sequences and state if a term is in a sequence.

<table><tr><td>Prior (Y9)
●</td><td>Current</td><td>Next (Y11/12)</td></tr></table></td></tr>
<tr><td>21-Oct</td><td>B</td><td>8</td><td>Angle facts in Polygons, and Parallel lines (5)

<u>Unit Learning Outcomes</u>

GW you can find missing angles in triangles and quadrilaterals.
BI you can calculate the exterior and interior angle of a polygon
EW you can use the interior and exterior angles of regular polygons to solve problems combining other angle facts.</td></tr>
</table>

4-Nov	A	9	**Linear Graphs (4)** <u>Unit Learning Outcomes</u> GW You can draw and interpret a straight line graph from a table of values. BI You can draw a straight-line graph in the form ax+by=c and calculate the gradient and intercept. EW you can find the equation of line from two given points.
11-Nov	B	10 **RQ (PM lesson)**	**Percentages, compound interest, repeated % change, reverse %'s (4)** <u>Unit Learning Outcomes</u> GW you can calculate a % increase/decrease with and without a calculator. BI you can calculate % change, profit and loss. EW you can calculate and interpret for all different types of % questions. Knowing how to calculate with a multiplier.
18-Nov	A	11	**Data representation and statistical graphs (4)** <u>Unit Learning Outcomes</u> GW students can draw and interpret bar charts and pictograms BI students can draw and interpret a range of graphs. EW students can make calculations and compare different types of graphs.

25-Nov	B	12	**Averages and range (3)** Unit Learning Outcomes GW you can calculate an average and the range from a data list. BI you can calculate an estimate for the mean from a frequency table. EW you can calculate all averages from a grouped frequency table.
2-Dec	A	13	**Recall and in- class formative assessment & feedback. (3 lessons)** **Structured revision PowerPoint using department template.**
9-Dec		14	**Travel Graphs, speed, distance and time and timetables. (5)** Unit Learning Outcomes GW you can read, interpret and calculate from timetables. BI you can construct and interpret real life graphs. EW you can calculate speed, distance and time both graphically and non-graphically.
16-Dec	A	15	**Area and Perimeter** Unit Learning Outcomes GW You can calculate the area and perimeter of common 2d shapes. BI you can calculate the area and perimeter of compound shapes, identifying missing lengths. EW you can solve are and perimeter problems in context

6-Jan	B	16	**Expand and factorise (4)** Unit Learning Outcomes GW you can expand linear expressions (1 bracket) BI you can expand a pair of single brackets and simplify. EW you can expand pairs of brackets
13-Jan	A	17 RQ	**Tree Diagrams** Unit Learning Outcomes GW you can calculate probabilities for mutually exclusive events. BI you can complete a tree diagram EW you can use a tree diagram to calculate probabilities.
20-Jan	B	18	**Scatter Diagrams and time series graphs (3)** Unit Learning Outcomes GW you can plot and draw a scatter graph. BI you can identify the different correlations. EW you can draw and interpret a line of best fit to make predictions
27-Jan	A	19	**Standard Form** Unit Learning Outcomes GW you can multiply and divide by powers of 10. BI you can write numbers in standard form. EW you can calculate in standard form

3-Feb	B	20 RQ	**Rounding, significant figures and estimation. (3)** <u>Unit Learning Outcomes</u> GW you can round to a given decimal place, significant figure. BI you can estimate by rounding for numbers greater than one. EW you can estimate by rounding for numbers less than one.
10-Feb	A	21	**Conversions and conversion graphs (3)** <u>Unit Learning Outcomes</u> GW you can describe a graph. BI you can interpret a conversion graph that has been drawn. EW you can draw and interpret a conversion graph from a given formula.
25-Feb	B	22	**Best Buys, Ratio (4)** <u>Unit Learning Outcomes</u> GW you can share an amount by a given ratio. BI you can solve ratio problems where 1 part or difference is known. EW calculate with part ratios. Eg Men:Women is 3:2 Women:Children is 6:1. What is the ratio of Men:Children?
3-Mar	A	23 RQ	**Surface area, Volume, MDV (4)** <u>Unit Learning Outcomes</u> GW calculate the surface area and volume of prisms including cylinders. BI calculate the surface area and volume of cones, spheres and pyramids. EW you can use the volume and or surface area to carry out other calculations including mass, density and volume.
10-Mar	B	24	**Pythagoras Theorem (4)** <u>Unit Learning Outcomes</u> GW you can calculate missing lengths in right angled triangles. BI you can find missing lengths in worded questions. EW you can find missing lengths when linked to area, perimeter and bearings.
17-Mar	A	25	**Index Laws (3)**

			Unit Learning Outcomes GW you can use multiplication and division rules with indices. BI you can calculate with negative powers. EW you can complete calculations where the base needs changing.
24-Mar	B	26 RQ	**Right angled Trigonometry (5)** Unit Learning Outcomes GW you can use Pythagoras' theorem to find missing lengths in right angled triangles. BI you can use trigonometry (*SOHCAHTOA) to* find missing lengths and angles in right angled triangles. EW you can use a combination of Pythagoras' theorem and trigonometry to find missing lengths and triangles.
31-Mar	A	ST1	**Revision, focus on topics using the department template**.
22-Apr	B	ST1	**Revision, focus on topics using the department template**.
28-Apr	A	ST1	**Revision, focus on topics using the department template**.
5-May	B	30	**EBI TO EXAMS (3)**
12-May	A	31	**Circumference and area of circles, arcs and sectors (3)** Unit Learning Outcomes GW you can calculate the area and circumference of circles. BI you can calculate the area and perimeter of arcs and sectors. EW you can find the radius and diameter when the area or circumference is given.
19-May	B	32	**Recall & PinPoint Learning Feedback (3)**
2-Jun	A	33	**Solve linear inequalities (3)** Unit Learning Outcomes GW you can identify integers that will satisfy an inequality. BI you can solve a basic inequality and represent a solution on a number line. EW you can solve compound inequalities and list a set of solutions.

9-Jun	B	34	**Sample space, Venn diagrams (3)** Unit Learning Outcomes GW you can complete a Venn diagram. BI you can calculate probabilities from a Venn diagram. EW you know when to use a Venn diagram or sample space diagram correctly to calculate probabilities.
16-Jun	A	35 RQ	**Bearings** and Scale Drawings (3) Unit Learning Outcomes GW you can draw and measure bearings accurately. BI you can use angle facts to calculate bearings. EW you can calculate return bearings.
23-Jun	B	36	**Properties of shape and tessellation (2)** Unit Learning Outcomes GW You can name common 2D/3D shapes and their properties. BI you can identify 2D/3D shapes from their nets EW you can comment on and identify tessellating patterns using angle knowledge.
30-Jun	A	37	**Algebra Skills – Recap Equations and Introduce Forming and Solving Equations**

			Unit Learning Outcomes GW you can solve equations BI you can solve equations with unknowns on both sides EW you can form and solve equations
7-Jul	B	38 RQ	Year 11 Preparation / In depth revisit of topics, based on analysis of ST2 exam
14-Jul	A	39	Year 11 Preparation / In depth revisit of topics, based on analysis of ST2 exam

* Bank Holidays