



Founded in 1888

# Queen Elizabeth's Girls' School

*Educating Women of the Future*

## Year 7 Maths

### Year 7 - Maths - Summer term 1st half

Unit of work	Knowledge / Skills
<b>13. Calculating with fractions &amp; percentages (contd.)</b>	<ul style="list-style-type: none"><li>• Fraction arithmetic</li><li>• Percentage change</li></ul>
<b>14. Solving equations</b>	<ul style="list-style-type: none"><li>• Solve one-step equations</li><li>• Solve two-step equations</li><li>• Solve multi-step equations</li></ul>
<b>15. Calculating space</b>	<ul style="list-style-type: none"><li>• Perimeter of 2D shapes</li><li>• Area of rectangles, triangles &amp; trapezia</li><li>• Volume &amp; surface area of cuboids</li></ul>

**Key Terms:** Mixed number, equivalent fraction, simplify, cancel, lowest terms, proper fraction, improper fraction, top-heavy fraction, percent, percentage, multiplier, increase, decrease, algebra, algebraic, algebraically, unknown, equation, operation, solve, solution, brackets, symbol, substitute, perimeter, area, volume, capacity, surface area, square, rectangle, parallelogram, triangle, trapezium (trapezia), polygon, cube, cuboid, square millimetre, square, centimetre, square metre, square kilometre, cubic centimetre, centimetre cube, formula, formulae, length, breadth, depth, height, width

**Course Materials:** All resources are provided in Maths lessons

**Homework will include:** Unit practice questions, revision for unit test, prior learning recall questions

**Assessment details:** End of unit tests on current learning

Termly assessment of a 45 minute paper (Part 1 Calculator, Part 2 Non-calculator)

**When will the assessments take place?** End of unit tests take place approximately fortnightly

Termly assessment 1 week before half-term

[Note: Set changes may take place following the termly assessment]



Year 7 - Maths - Summer term 2nd half	
Unit of work	Knowledge / Skills
<b>15. Calculating space (contd.)</b>	<ul style="list-style-type: none"> <li>• Perimeter of 2D shapes</li> <li>• Area of rectangles, triangles &amp; trapezia</li> <li>• Volume &amp; surface area of cuboids</li> </ul>
<b>16. Coordinates &amp; transformations</b>	<ul style="list-style-type: none"> <li>• Naming horizontal, vertical &amp; diagonal lines</li> <li>• Translation</li> <li>• Reflection</li> <li>• Rotation</li> </ul>
<b>17. Presentation of data</b>	<ul style="list-style-type: none"> <li>• Frequency tables</li> <li>• Bar charts &amp; vertical line graphs</li> <li>• Pie charts</li> </ul>
<b>18. Measuring data</b>	<ul style="list-style-type: none"> <li>• Range</li> <li>• Mode, median &amp; mean</li> <li>• Averages &amp; range from frequency tables</li> </ul>
<p><b>Key Terms:</b> Perimeter, area, volume, capacity, surface area, square, rectangle, parallelogram, triangle, trapezium (trapezia), polygon, cube, cuboid, square millimetre, square, centimetre, square metre, square kilometre, cubic centimetre, centimetre cube, formula, formulae, length, breadth, depth, height, width, (Cartesian) coordinates, axis, axes, x-axis, y-axis, origin, quadrant, translation, reflection, rotation, transformation, object, image, congruent, congruence, mirror line, vector, centre of rotation, data, categorical data, discrete data, pictogram, symbol, key, frequency, table, frequency table, tally, bar chart, time graph, time series, bar-line graph, vertical line chart, scale, graph, axis, axes, line graph, pie chart, sector, angle, maximum, minimum, average, spread, consistency, mean, median, mode, range, measure, data, statistic, statistics, approximate, round</p>	
<p><b>Course Materials:</b> All resources are provided in Maths lessons</p>	
<p><b>Homework will include:</b> Unit practice questions, revision for unit test, prior learning recall questions</p>	
<p><b>Assessment details:</b> End of unit tests on current learning</p>	
<p><b>When will the assessments take place?</b> End of unit tests take place approximately fortnightly</p>	