Y7 Mathematics

Long Term Plan 2022/2023

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|  | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 | Week 13 |
| Cycle 1 | **5/9** | **12/9** | **19/9** | **26/9** | **3/10** | **10/10** | **17/10** | **31/10**  **Re-induction** | **7/11** | **14/11**  **Planning days** | **21/11** | **28/11** | **5/12** |
| **Expectations**  **Sparx** | **Unit 1 Algebra**  Algebraic notation | **Unit 1 Algebra**  Substitution | **Unit 1 Algebra**  Simplifying | **Unit 1 Algebra**  Simplifying | **Unit 1 Algebra**  Solving | **Catch Up** | **Unit 1 Algebra**  Solving | **Unit 1 Algebra**  Sequences | **Unit 2 Number**  Place value, inequalities and ordering | **Unit 2 Number**  Four operations inc. decimals | **Unit 2 Number**  Four operations inc. decimals | **Unit 2 Number**  Factors and multiples |
| Cycle 2 | **12/12** | **2/1**  **Re-induction** | **9/1** | **16/1** | **23/1 30/1**  **Cycle Assessment Weeks** | | **6/2** | **13/2** | **27/2** | **6/3**  **Planning Days** | **13/3** | **20/3** | **27/3** |
| **Unit 2 Number**  Factors and multiples | **Unit 2 Number**  Rounding and estimation | **Unit 2 Number**  Application | **Unit 2 Number**  Application | **Assessments** | **Unit 3 Geometry**  Unit conversion | **Unit 3 Geometry**  Angle types, estimating, draw and measure | **Unit 3 Geometry**  Properties of triangles and quadrilaterals | **Unit 3 Geometry**  Angle facts | **Unit 3 Geometry**  Mixed angle facts | **Unit 4 Fractions**  Fractions of amounts | **Unit 4 Fractions**  Fraction equivalence | **Unit 4 Fractions**  Four operations with fractions |
| Cycle 3 | **17/4**  **Re-induction** | **24/4** | **1/5**  **BH MON** | **8/5**  **BH MON** | **15/5** | **22/5**  **Y7 PARENTS** | **5/6**  **Re-induction** | **12/6 19/6**  **Cycle assessment weeks** | | **26/6** | **3/7** | **10/7** | **17/7** |
| **Unit 4 Fractions**  Four operations with fractions | **Unit 4 Fractions**  Compare and order fractions | **Unit 4 Fractions**  Worded fraction problems | **Unit 5 Percentages**  Expressing percentages | **Unit 5 Percentages**  FDP | **Unit 5 Percentages**  FDP | **Unit 5 Percentages**  Percentage of amounts | **Revision and Assessments** | **Revision and Assessments** | **Unit 5 Percentages**  Percentages increase and decrease | **Unit 5 Percentages**  Percentages increase and decrease | **Unit 5 Percentages**  Simple interest | **Unit 5 Percentages**  Simple interest |

Y8 Mathematics

Long Term Plan 2022/2023

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|  | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 | Week 13 |
| Cycle 1 | **5/9** | **12/9** | **19/9** | **26/9** | **3/10** | **10/10 17/10** | | **31/10**  **Re-induction** | **7/11** | **14/11**  **Planning days** | **21/11** | **28/11** | **5/12** |
| **Expectations**  **Sparx HWK** | **Unit 1 Probability and Statistics**  Probability scales and simple probability | **Unit 1 Probability and Statistics**  Probability NOT and from listing outcomes and frequency trees | **Unit 1 Probability and Statistics**  Calculating MMMR | **Unit 1 Probability and Statistics**  Simple statistical diagrams | **Unit 1 Probability and Statistics**  Pie charts | **Unit 2 Number**  Index laws | **Unit 2 Number**  Calculating with powers and roots, inc. Pythagoras | **Unit 2 Number**  Standard form | **Unit 2 Number**  Standard form | **Unit 2 Number**  Prime factorisation, HCF and LCM | **Unit 2 Number**  Prime factorisation, HCF and LCM | **Unit 2 Number**  Sets and Venn diagrams |
| Cycle 2 | **12/12** | **2/1**  **Re-induction** | **9/1** | **16/1** | **23/1 30/1**  **Cycle Assessments** | | **6/2** | **13/2** | **27/2**  **Re-induction** | **6/3**  **Planning Days** | **13/3** | **20/3** | **27/3** |
| **Unit 3 Algebra**  Inequalities | **Unit 3 Algebra**  Complex manipulation | **Unit 3 Algebra**  Complex manipulation | **Unit 3 Algebra**  Formulae | **Revision and Assessments** | **Unit 3 Algebra**  Forming and Solving | **Unit 3 Algebra**  Forming and Solving | **Unit 3 Algebra**  Sequences | **Unit 4 2D Geometry**  Constructions | **Unit 4 2D Geometry**  Angles in parallel lines | **Unit 4 2D Geometry**  Angles in parallel lines | **Unit 4 2D Geometry**  Unit conversions | **Unit 4 2D Geometry**  Area of trapezia and compound shapes |
| Cycle 3 | **17/4**  **Re-induction** | **24/4**  **Y8 PARENTS EVE** | **1/5**  **BH MON** | **8/5**  **BH MON** | **15/5** | **22/5** | **5/6**  **Re-induction** | **12/6 19/6**  **Cycle assessment weeks** | | **26/6** | **3/7** | **10/7** | **17/7** |
| **Unit 4 2D Geometry**  Area of trapezia and compound shapes | **Unit 4 2D Geometry**  Circles | **Unit 4 2D Geometry**  Circles | **Unit 5 Proportional Reasoning**  Percentage increase/decrease | **Unit 5 Proportional Reasoning**  Percentage increase/decrease | **Unit 5 Proportional Reasoning**  Reverse percentages | **Unit 5 Proportional Reasoning**  Compound interest | **Revision and Assessments** | **Revision and Assessments** | **Unit 5 Proportional Reasoning**  Ratio | **Unit 5 Proportional Reasoning**  Ratio | **Unit 5 Proportional Reasoning**  Compound measures | **Unit 5 Proportional Reasoning**  Compound measures |

Y9 Mathematics

Long Term Plan 2022/2023

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|  | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 | Week 13 |
| Cycle 1 | **5/9** | **12/9** | **19/9** | **26/9** | **3/10** | **10/10** | **17/10** | **31/10**  **Re-induction** | **7/11** | **14/11**  **Planning days** | **21/11** | **28/11** | **5/12** |
| **Expectations**  **Sparx HWK** | **Unit 1 Statistics**  Collecting and organising data | **Unit 1 Statistics**  Interpret and compare statistical representations | **Unit 1 Statistics**  MMMR from a frequency table | **Unit 1 Statistics**  Frequency diagrams | **Unit 1 Statistics**  Identifying errors and misconceptions in statistical diagrams | **Unit 2 Graphs and Proportion**  Coordinates and mid-points | **Unit 2 Graphs and Proportion**  Linear functions | **Unit 2 Graphs and Proportion**  Direct proportion | **Unit 2 Graphs and Proportion**  Inverse proportion | **Unit 2 Graphs and Proportion**  Scale | **Unit 3 Algebraic Expressions**  Sequences | **Unit 3 Algebraic Expressions**  Expanding |
| Cycle 2 | **12/12** | **2/1**  **Re-induction** | **9/1** | **16/1** | **23/1 30/1**  **Cycle Assessments** | | **6/2** | **13/2** | **27/2**  **Re-induction** | **6/3**  **Planning Days** | **13/3** | **20/3** | **27/3** |
| **Unit 3 Algebraic Expressions**  Factorising | **Unit 3 Algebraic Expressions**  Factorising | **Unit 3 Algebraic Expressions**  Solving | **Unit 3 Algebraic Expressions**  Solving | **Revision and Assessments** | Catch Up | **Unit 3 Algebraic Expressions**  Transposing Formulae | **Unit 3 Algebraic Expressions**  Transposing Formulae | **Unit 4 Geometry Angles**  Constructions and Loci | **Unit 4 Geometry Angles**  Angles in polygons | **Unit 4 Geometry Angles**  Angles in polygons | **Unit 4 Geometry Angles**  Congruency | **Unit 4 Geometry Angles**  Similarity |
| Cycle 3 | **17/4**  **Re-induction** | **24/4** | **1/5**  **BH MON** | **8/5**  **BH MON** | **15/5** | **22/5** | **5/6**  **Re-induction** | **12/6 19/6**  **Cycle assessment weeks** | | **26/6** | **3/7** | **10/7** | **17/7** |
| **Unit 4 Geometry Angles**  Similarity | **Unit 4 Geometry Angles**  Arcs and sectors | **Unit 4 Geometry Angles**  Arcs and sectors | **Unit 5 Algebra Graphs**  Form and solve inequalities | **Unit 5 Algebra Graphs**  Graphing inequalities and identifying regions | **Unit 5 Algebra Graphs**  Graphing inequalities and identifying regions | **Unit 5 Algebra Graphs**  Simultaneous equations | **Cycle Assessments** | **Cycle Assessments** | **Unit 5 Algebra Graphs**  Simultaneous equations | **Unit 5 Algebra Graphs**  Quadratic graphs | **Unit 5 Algebra Graphs**  Other algebraic graphs | **Unit 5 Algebra Graphs**  Other algebraic graphs |

Y10 Mathematics

Long Term Plan 2022/23

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|  | **Week 1** | **Week 2** | **Week 3** | **Week 4** | **Week 5** | **Week 6** | **Week 7** | **Week 8** | | **Week 9** | **Week 10** | **Week 11** | | **Week 12** | **Week 13** |
| **Cycle 1** | **5/9** | **12/9** | **PD**  **19/9** | **26/9** | **3/10** | **10/10** | **17/10** | **31/10**  **Re-induction** | | **7/11** | **14/11**  **Planning days** | **PD**  **21/11** | | **28/11** | **5/12** |
| **Expectations**  **Sparx HWK** | **Unit 1 Probability and Statistics**  Experimental probability | **Unit 1 Probability and Statistics**  Probability of combined events | **Unit 1 Probability and Statistics**  MMMR from a frequency table | **Unit 1 Probability and Statistics**  Cumulative frequency and box plots (PAGE 39-50 Set 1-6 only) | **Unit 1 Probability and Statistics**  Compound measures  (PAGE 72-73 Set 1-6 only) | **Unit 1 Probability and Statistics**  Compound measures  (PAGE 72-73 Set 1-6 only) | **Unit 2 Algebra Graphs**  Line segments | | **Unit 2 Algebra Graphs**  Equation of a line from coordinates | **Unit 2 Algebra Graphs**  Parallel and perpendicular lines  (PAGE 16-23 Set 1-6 only) | **Unit 2 Algebra Graphs**  Sketching quadratics  (PAGE 26-32 Set 1-6 only) | | **Unit 2 Algebra Graphs**  Sketching quadratics  (PAGE 26-32 Set 1-6 only) | **Unit 2 Algebra Graphs**  Gradient of and area under curves  (PAGE 32-47 Set 1-6 only) |
| **Cycle 2** | **12/12** | **2/1**  **Re-induction** | **9/1** | **16/1** | **23/1**  **Cycle Assessments** | **30/1** | **6/2** | | **13/2**  **Y10 Parents** | **27/2**  **Re-induction** | **6/3**  **Planning Days** | **13/3** | | **20/3** | **27/3** |
| **Unit 2 Algebra Graphs**  Gradient of and area under curves  (PAGE 32-47 Set 1-6 only) | **Unit 3 Limits and 3D Geometry**  Estimation | **Unit 3 Limits and 3D Geometry**  Bounds of accuracy  (PAGE 19-26 Set 1-6 only) | **Unit 3 Limits and 3D Geometry**  Bounds of accuracy  (PAGE 19-26 Set 1-6 only) | **Unit 3 Limits and 3D Geometry**  Volume and S.A  (PAGE 36-50 Set 1-6 only) | **Unit 3 Limits and 3D Geometry**  Volume and S.A  (PAGE 36-50 Set 1-6 only) | **Unit 3 Limits and 3D Geometry**  Volume and S.A  (PAGE 36-50 Set 1-6 only) | **Unit 3 Limits and 3D Geometry**  Plans and Elevations | | **Unit 3 Limits and 3D Geometry**  3D Geometry Applications  (PAGE 76-79 Set 1-6 only) | **Unit 3X Graphs & Algebra**  Mid Points and y = mx + c | **Unit 3X Graphs & Algebra**  Linear Graphs | | **Unit 3X Graphs & Algebra**  Linear Graphs | **Unit 3X Graphs & Algebra**  Equations |
| **Cycle 3** | **17/4**  **Re-induction** | **24/4** | **1/5**  **BH MON** | **8/5**  **BH MON** | **15/5** | **22/5** | **5/6**  **Re-induction** | **12/6 19/6**  **Cycle assessment weeks** | | | **26/6** | | **3/7** | **10/7** | **17/7** |
| **Unit 3X Graphs & Algebra**  Equations | **Unit 3X Graphs & Algebra**  Inequalities | **Unit 3X Graphs & Algebra**  Inequalities | **Unit 3X Graphs & Algebra**  Other Graphs | **Unit 4 Statistics and Probability**  Conditional probability | **Unit 4 Statistics and Probability**  Populations inc. capture recapture | **Unit 4 Statistics and Probability**  Outcomes inc. product rule and sample space | **Assessments** | | **Unit 4 Statistics and Probability**  Venn diagrams | **Unit 4 Statistics and Probability**  Venn diagrams | **Unit 4 Statistics and Probability**  Probability of combined events | | **Unit 4 Statistics and Probability**  Conditional probability | **Unit 4 Statistics and Probability**  Conditional probability |