

KS4 Edexcel Higher Tier 2 Year SoW

| Unit | Title | Estimated hours | |
|-----------|--|--|----|
| <u>1</u> | a | Calculations, checking and rounding | 4 |
| | b | Indices, roots, reciprocals and hierarchy of operations | 4 |
| | c | Factors, multiples, primes, standard form and surds | 7 |
| <u>2</u> | a | Algebra: the basics, setting up, rearranging and solving equations | 10 |
| | b | Sequences | 4 |
| <u>3</u> | a | Averages and range | 4 |
| | b | Representing and interpreting data and scatter graphs | 5 |
| <u>4</u> | a | Fractions and percentages | 12 |
| | b | Ratio and proportion | 6 |
| <u>5</u> | a | Polygons, angles and parallel lines | 6 |
| | b | Pythagoras' Theorem and trigonometry | 6 |
| <u>6</u> | a | Graphs: the basics and real-life graphs | 6 |
| | b | Linear graphs and coordinate geometry | 8 |
| | c | Quadratic, cubic and other graphs | 6 |
| <u>7</u> | a | Perimeter, area and circles | 5 |
| | b | 3D forms and volume, cylinders, cones and spheres | 7 |
| | c | Accuracy and bounds | 5 |
| <u>8</u> | a | Transformations | 6 |
| | b | Constructions, loci and bearings | 7 |
| <u>9</u> | a | Solving quadratic and simultaneous equations | 7 |
| | b | Inequalities | 6 |
| <u>10</u> | Probability | 8 | |
| <u>11</u> | Multiplicative reasoning | 8 | |
| <u>12</u> | Similarity and congruence in 2D and 3D | 6 | |
| <u>13</u> | a | Graphs of trigonometric functions | 6 |
| | b | Further trigonometry | 9 |
| <u>14</u> | a | Collecting data | 4 |
| | b | Cumulative frequency, box plots and histograms | 6 |
| <u>15</u> | Quadratics, expanding more than two brackets, sketching graphs, graphs of circles, cubes and quadratics | 7 | |
| <u>16</u> | a | Circle theorems | 5 |
| | b | Circle geometry | 5 |
| <u>17</u> | Changing the subject of formulae (more complex), algebraic fractions, solving equations arising from algebraic fractions, rationalising surds, proof | 7 | |
| <u>18</u> | Vectors and geometric proof | 9 | |
| <u>19</u> | a | Reciprocal and exponential graphs; Gradient and area under graphs | 7 |
| | b | Direct and inverse proportion | 7 |