\& hegartymaths
As you transition from primary to secondary school, it is very important to refresh your memory on some maths skills that you have learnt in the past (Building Blocks). We have also included some skills as extension tasks (Extension Skills) that involve more of the work you may be doing in your first years in secondary school.


| Strand | Topic | Skill | Skill \# | Strand | Topic | Skill | Skill \# |
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| $\begin{aligned} & \stackrel{\searrow}{\omega} \\ & \stackrel{0}{c} \\ & \stackrel{y}{3} \end{aligned}$ | Percentages | Percentages as pictures | 81 |  | Angles in polygons | Interior angles in quadrilaterals | 560 |
|  |  | Convert percentages to fractions | 82 |  |  | Interior angles in polygons (1) | 561 |
|  |  | Convert percentages to decimals | 83 |  |  | Interior angles in polygons (2) | 562 |
|  |  | Find percentages of amounts 1 (common \% non-calc) | 84 |  |  | Exterior angles in polygons (1) | 563 |
|  |  | Percentage increase or decrease (non-calc) | 88 |  | Perimeter | Perimeter (1) | 548 |
|  | Indices, powers \& roots | Square numbers | 99 |  |  | Perimeter (2) | 549 |
|  | Number sense | Use of commutative \& associative laws | 140 |  |  | Perimeter (3) | 550 |
|  |  | Subtraction by counting on | 141 |  |  | Perimeter (4) | 551 |
|  |  | Subtraction using negatives | 142 |  | Area | Counting squares | 553 |
|  |  | Lattice method for multiplication | 143 |  |  | Rectangles | 554 |
|  |  | Short multiplication | 144 |  |  | Compound shapes | 555 |
|  |  | Long division | 145 |  |  | Parallelograms | 556 |
|  |  | Division using steps | 146 |  |  | Triangles (1) | 557 |
|  |  | Mental maths help 1 (splitting numbers) | 147 |  |  | Triangles (2) | 558 |
|  |  | Mental maths help 2 (doubling \& halving) | 148 |  | Volume | Counting cubes | 567 |
| $\begin{aligned} & \frac{\pi}{0} \\ & \frac{0}{0} \\ & \frac{0}{4} \end{aligned}$ | Linear equations | Solve equations using inverse operations | 177 |  |  | Cuboids (1) | 568 |
|  |  | Linear sequences from pictures | 196 | Probability \& sets | Single event probability | Express a probability in words | 349 |
|  |  | Linear sequences (term-to-term rule) | 197 |  |  | Express a probability in numbers | 350 |
|  |  | Cartesian axes \& coordinates | 199 |  | Collecting data | Data collection sheets (tally charts) | 401 |
|  | Quadratics | Sums \& products | 221 |  |  | Grouped frequency tables (discrete) | 402 |
|  | Naming, drawing, measuring \& estimating angles | Types of angles | 455 |  | Displaying data (1) | Bar charts \& vertical line graphs | 425 |
|  |  | Naming sides \& angles | 456 |  |  | Pictograms | 426 |
|  |  | Estimating angles | 457 |  |  | Time series charts (1) | 450 |
|  |  | Measuring angles (1) | 458 |  |  |  |  |
|  |  | Measuring angles (2) | 459 |  |  |  |  |
|  |  | Measuring angles (3) | 460 |  |  |  |  |
|  |  | Drawing angles | 461 |  |  |  |  |
|  | Angle facts | Angles on a straight line (1) | 477 |  |  |  |  |
|  |  | Angles in a triangle (1) | 485 |  |  |  |  |
|  |  | Angles in a triangle (2) | 486 |  |  |  |  |



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|  | Ratio | Compare quantities using ratios | 328 |
|  |  | Simplify ratios | 329 |
|  |  | Write ratios as fractions/proportions | 330 |
|  |  | Share in a given ratio 1 | 332 |
|  |  | Share in a given ratio 2 | 333 |
|  |  | Share in a given ratio 3 | 334 |
|  |  | Harder problems involving ratios 1 | 335 |
|  |  | Harder problems involving ratios 2 | 336 |
|  |  | Harder problems involving ratios 3 | 337 |
|  |  | Solve ratio problems using algebra | 338 |
|  | Proportion | Direct proportion 1 | 339 |
|  | Angle facts | Angles on a straight line (2) | 478 |
|  |  | Angles around a point | 479 |
|  |  | Vertically opposite angles | 480 |
|  |  | Alternate angles | 481 |
|  |  | Co-interior angles | 482 |
|  |  | Corresponding angles | 483 |
|  |  | Proof - angles in triangles | 484 |
|  |  | Angles in a triangle (3) | 487 |
|  |  | Multi-step angle problems (1) | 488 |
|  |  | Multi-step angle problems (2) | 489 |
|  |  | Multi-step angle problems (3) | 490 |
|  |  | Multi-step angle problems (4) | 491 |
|  | Perimeter | Perimeter (5) | 552 |
|  | Area | Trapezium | 559 |
|  | Circle measure | Circumference of a circle (1) | 534 |
|  | Volume | Cuboids (2) | 569 |
|  | Surface area | Surface area of cuboids | 584 |
|  | Circle theorems | Parts of the circle | 592 |
|  | Similar shapes | Similar polygons (2) | 609 |
|  |  | Similar polygons (3) | 610 |
|  |  | Similar triangles (1) | 611 |


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| Probability | Single event | Probability of single events (1) | 351 |
| \& sets | probability | Probability of single events (2) | 352 |
|  | Collecting data | Types of data (1) | 392 |
|  |  | Types of data (2) | 393 |
|  |  | Surveys \& questionnaires (1) | 399 |
|  |  | Grouped frequency tables (continuous) | 403 |
|  | Averages \& ranges | Mean (1) | 405 |
|  |  | Mean (2) | 406 |
|  |  | Mean (3) | 407 |
|  |  | Mean from frequency tables (1) | 417 |
|  | Displaying <br> data (1) | Pie charts (1) | 427 |
|  |  | Pie charts (2) | 428 |
|  |  | Pie charts (3) | 429 |
|  | Displaying <br> data (2) | Cumulative frequency diagrams (1) | 437 |
|  |  | Scatter diagrams (1) | 453 |

