## S2 COURSE PLAN NATIONAL 4 ROUTE

|  | Powers \& Roots | Scientific notation in context; Calculations involving scientific notation | Round to a number of significant figures |
| :---: | :---: | :---: | :---: |
|  |  |  | Write large and small numbers in Scientific notation/standard form |
|  |  |  | Use numbers written in scientific notation within calculations |
|  | Expressions and Equations | Constructing and solving simple equations | Solve equations with term on both sides e.g., $3 \mathrm{x}+4=2 \mathrm{x}-5$ |
|  |  | Distributive law; Simplifying, multiplying and evaluating simple algebraic terms involving brackets. | Multiply out a single bracket, including more than one within an expression e.g. $3(x+2) ; x(x-4) ; 3(x+2)-2(x+5)$ |
|  |  | Factorising - common factor and factorising expressions | Factorise using single bracket (common factor) |
|  | Angles | Angles in 2D shapes, intersecting and parallel lines | On parallel lines calculate - Corresponding (F), Alternate (Z) and Co-interior (C) angles |
|  |  |  | Angles inside polygons |
|  |  |  | Calculate Complementary, Supplementary Angles and Vertically Opposite angles |

## S2 COURSE PLAN NATIONAL 4 ROUTE

|  | Area | Area of composite 2D shapes | Calculate the area of composite 2D shapes, including parallelogram, kite and trapezium approached as composite shapes |
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|  |  |  | Introduce pi |
|  |  |  | Circumference of a circle using formula - $\mathrm{C}=\mathrm{Pid}$ or $\mathrm{C}=2 \mathrm{Pi} \mathrm{r}$ |
|  | Circle | Circumference and area of a circle | Area of a circle using formula - $\mathrm{C}=\mathrm{Pi} \mathrm{r}^{2}$ |
|  |  |  | Circumference and area of simple fractions of circles - half, quarter, third |
|  | Problem Solving | Problem Solving | Problem Solving |



## S2 COURSE PLAN NATIONAL 4 ROUTE

|  | Convert units of time | Convert hours and minutes to hours in decimal form (and reverse) |  |
| :--- | :---: | :---: | :---: |
|  | RDT | Rate | Calculate rate: e.g., miles per hour or number of texts per month |
|  |  |  |  |

