| Date (week <br> commencing) | Numbers to learn |
| :--- | :--- |
| $01 / 11 / 21$ | $5.1-5.8$ <br> $3.1-3.3$ <br> 4.1 |
| $08 / 11 / 21$ | $5.1-6.4$ |
| $15 / 11 / 21$ | $6.1-6.7 \quad 2.1-2.3$ |
| $22 / 11 / 21$ | $5.1-6.7$ |
| $29 / 11 / 21$ | $1.1-2.6 \quad 5.1-5.8$ |
| $06 / 12 / 21$ | $2.7-4.5 \quad 6.1-6.7$ |
| $13 / 12 / 21$ | $1.1-6.7$ |

## Learning means...

I am using look >> cover >> write >> check at least twice for this week's facts
and/or

I made flash cards ( "Question" on one side and "Answer" on the other) for the facts and got someone to test me on them at least twice
so that...

I achieve the minimum score of $8 / 10$ on the quiz

| Unit 5 - sequences |  |  |
| :---: | :--- | :--- |
| No. | Question | Answer |
| 5.1 | Linear/arithmetic sequence | A number pattern which increases or decreases by <br> the same amount each time |
| 5.2 | Common difference | The amount the sequence increases or decreases by <br> between each term |
| 5.3 | Geometric sequence | A number pattern that uses multiplication between <br> each term |
| 5.4 | Term (sequence) | A number in a sequence |
| 5.5 | The nth term | The general rule for a number pattern <br> (this is the 10 th term in the sequence |
| 5.6 | $n$ (sequence) | $1,4,9,16,25,36,49,64,81,100,121,144$ |
| 5.7 | The first 10 square numbers are |  |
| 5.8 | The first 5 cube numbers are | $1,8,27,64,125$ |


| Unit 6 - expanding and factorising |  |  |  |
| :---: | :--- | :--- | :--- |
| No. | Question |  | Answer |


| Unit 1 - coordinates |  |  |  | Unit $2-\mathrm{y}=\mathrm{mx}+\mathrm{c}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. | Question | Answer | Example | No. | Question | Answer | Example |
| 1.1 | Coordinates are always | ( $\mathrm{x}, \mathrm{y}$ ) |  | 2.1 | Vertical lines are always | $\mathrm{x}=\mathrm{..}$. <br> where all the x coordinates are the same |  $x=3$ |
| 1.2 | Midpoint of a line segment | $\left(\frac{x_{1}+x_{2}}{2}, \frac{y+y_{2}}{2}\right)$ | $\boldsymbol{o}^{\left(x_{2}, y_{2}\right)}$ | 2.2 | Horizontal lines are always | $y=\ldots$ <br> where all the $y$ coordinates are the same |  $y=6$ |
| Unit 3 - proportion |  |  |  | 2.3 | m | Gradient | Example: $y=2 x-4$ |
| No. | Question | Answer | Example |  |  |  |  |
| 3.1 | Direct proportion | As one variable increases, the other variable increases |  | 2.4 | To find the gradient | $\frac{\text { Difference in } y}{\text { Difference in } x}=\frac{y_{2}-y_{1}}{x_{2}-x_{1}}$ |  |
| 3.2 | Inverse proportion | As one variable increases, the other variable decreases |  | 2.5 <br> 2.6 | C | Y intercept <br> The y coordinate when $\mathrm{x}=0$ |  |
| 3.3 | The unitary method | Find one first |  |  |  | This is where the line crosses the $y$ axis |  |
| Unit 4 - standard form |  |  |  | 2.7 | Parallel lines | Have the same gradient | $\begin{gathered} y=x+2 \\ y=x \\ y=x-2 \end{gathered}$ |
| No. | Question | Answer | Example |  |  |  |  |
| 4.1 | Standard form | A way of writing very big or very small numbers using powers of 10 | $4,000,000$ is $4 \times 10^{6}$ |  |  |  |  |
| 4.2 | $10^{-3}$ | 0.001 |  |  |  |  |  |
| 4.3 | $10^{-2}$ | 0.01 |  | 2.8 | Perpendicular lines | $-\frac{1}{\text { gradient }}$ |  |
| 4.4 | $10^{-1}$ | 0.1 |  |  |  |  | $\begin{gathered} y=3 x+2 \\ y=-\frac{1}{3} x-1 \end{gathered}$ |
| 4.5 | $10^{0}$ | 1 |  |  |  |  |  |
| 4.6 | $10^{1}$ | 10 |  |  |  |  |  |
| 4.7 | $10^{2}$ | 100 |  |  |  |  |  |
| 4.8 | $10^{3}$ | 1000 |  |  |  |  |  |

