## Y7 Maths Knowledge Organiser Topic 4:BIDMAS

| What must I be able to do? | Key vocabulary |  |
| :---: | :---: | :---: |
| $\square$ carry out combined operations involving all four operations <br> $\square$ Understand and use brackets <br> $\square$ Use simple index notation | Brackets | A pair of curved symbols to indicate that the operation must be done first. <br> e.g. $3 \times(4+5)$ the brackets around $4+5$ tell us to work that out before multiplying by 3 , s0 $3 \times 9=27$. |
| > Sparx M521 | Indices | Also known as powers. Describes the small number that tells you to square, cube etc. e.g. $3^{2}=3 \times 3=9$, the 2 is the power/index. Indices is the plural of index. |

## Order of operations (BIDMAS)

Brackets

- operations in brackets are done first

Indices

- then evaluate any powers/roots

Division and Multiplication

- carried out in order from left to right in the question

Addition and Subtraction

- carried out in order from left to right in the question


## Using a calculator

A good modern calculator will automatically follow the rules of BIDMAS and there is no need to input a question in stages. You can even input questions so that they look exactly like they would on paper. These calculators will also change answers between fractions, deimals and other equivalent values. On the Sharp calculator use 'Change' and on a casio press $S \Leftrightarrow D$.


