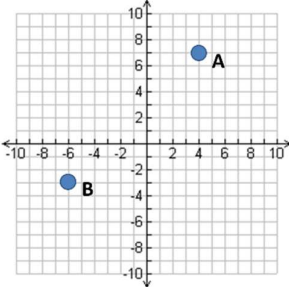


## KNOWLEDGE ORGANISER – YEAR 7 TERM 6

| Topic | Information  | Examples  | Hegarty Clip |
|-------|--|---|--------------|
| 1     | Metric System<br><br><b>Length: mm, cm, m, km</b><br><b>Mass: mg, g, kg</b><br><b>Volume: ml, cl, l</b>  | $1 \text{ kilometre} = 1000 \text{ metres}$<br>$1 \text{ metre} = 100 \text{ centimetres}$<br>$1 \text{ centimetre} = 10 \text{ millimetres}$<br>$1 \text{ kilogram} = 1000 \text{ grams}$              | 691-698      |
| 2     | Imperial System<br><br><b>Length: inch, foot, yard, miles</b><br><b>Mass: lb, ounce, stone</b><br><b>Volume: pint, gallon</b>  | $1 \text{ lb} = 16 \text{ ounces}$<br>$1 \text{ foot} = 12 \text{ inches}$<br>$1 \text{ gallon} = 8 \text{ pints}$  |              |
| 3     | Metric and Imperial Units<br><br>Use the <b>unitary method</b> to convert between metric and imperial units.   | $1 \text{ gallon} \approx 4.5 \text{ litres}$<br>$2.2 \text{ pounds} \approx 1 \text{ kilogram}$<br>$1 \text{ inch} \approx 2.5 \text{ centimetres}$  | 705, 706     |
| 4     | Coordinates<br><br>Written in <b>pairs</b> . The <b>first</b> term is the <b>x-coordinate</b> (movement <b>across</b> ).<br>The <b>second</b> term is the <b>y-coordinate</b> (movement <b>up or down</b> )        |  <div style="display: inline-block; vertical-align: top; margin-left: 10px;"> <p>A: (4,7)<br/>B: (-6,-3)</p> </div> | 199          |
| 5     | Midpoint of a Line<br><br>Method 1: add the x coordinates and divide by 2, add the y coordinates and divide by 2<br><br>Method 2: Sketch the line and find the values half way between the two x and two y values. | Find the midpoint between (2,1) and (6,9)<br><br>$\frac{2+6}{2} = 4$ and $\frac{1+9}{2} = 5$<br><br>So, the midpoint is (4,5)   | 200          |