**Year 3 Knowledge Organiser**

**PERIMETER**

Is the distance around a two-dimensional shape. Perimeter = 16cm

**2D shapes**

**2D shapes have 2 dimensions- width and height**

|  |  |
| --- | --- |
| **Name**  | **No. of sides** |
| triangle | 3 |
| quadrilateral  | 4  |
| pentagon  | 5  |
| hexagon  | 6  |
| heptagon  | 7  |
| octagon  | 8  |
| nonagon  | 9  |
| decagon  | 10  |

polygon = shape with straight sides

regular = all sides/angles the same

 irregular = sides/angles **not** same

**3D shapes**

**3D shapes have 3 dimensions – width height and depth**

**Vertices are corners**

**Edges**

**faces**



**Roman numerals**

|  |  |
| --- | --- |
| 1  | I  |
| 5  | V  |
| 10  | X  |

**Measurement conversions**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |
| --- | --- |
| **Month**  | **Days**  |
| January  | 31  |
| February  | 28 (29 in leap year)  |
| March | 31 |
| April | 30 |
| May | 31 |
| June  | 30  |
| July  | 31  |
| August  | 31  |
| September  | 30  |
| October  | 31  |
| November | 30 |
| December  | 31 |

 |

|  |  |
| --- | --- |
| 1 **cent**imetre  | 10mm  |
| 1 metre  | 100cm  |
|   |   |
| 1 **kilo**gram  | 1,000 grams  |
|   |   |
| 1 litre  | 1,000 **milli**litres  |
|  |  |
| 1 minute | 60 seconds |
| 1 hour | 60 minutes |
| 1 day | 24 hours |
| 1 week | 7 days |
| 1 year  | 365 days (366 in a leap year)52 weeks |
|  |  |
| £1 | 100p |
| £5 | 500p |
|  |  |

 |

**Time**

To read time on analogue clock.

To know that the shorter (hour) hand points to the hours.

The longer (minute) hand points to the minutes.

 The hour hand has passed 8 and the minute hand is at 15. The time is 8:15 pm.

To know that the 24 hour clock has 4 digits and represents the 24 hours in a day. The first two digits represent the hours that have passed and the last two digits represent the minutes.

**15:23** means that 15 hours and 23 minutes of the day has passed – 15 hours is 3 hours after midday (12pm). Therefore the time is: **3:23 pm.**

**Multiplication and division vocabulary**

|  |  |  |
| --- | --- | --- |
| **Term**  | **Definition**  | **Example**  |
| integer | A number that is not a fraction i.e. a whole number  | 1,2,3,4,  |

**Fractions, decimals & percentages**

|  |  |  |
| --- | --- | --- |
| 1/10  | 0.1  | ÷ 10  |
| 1  | 1  | ÷ 1  |

**Angles**

To know that angles are a measurement and that they measure a turn. They are measured in degrees.

|  |  |  |
| --- | --- | --- |
| full turn  | 360° |   |
| half turn  | 180°  |
| right angle  | 90°  |

**Shape vocabulary perimeter** = measure around the edge (**circumference** = perimeter of a circle)

Horizontal line parallel lines

 Vertical line Perpendicular lines

**Times tables**

**To know multiplication and division facts for multiplication tables 3,4 and 8**