| Topic/Skill | Definition/Tips | Example |
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| 1. Metric System | A system of measures based on: <br> - the metre for length <br> - the kilogram for mass <br> - the second for time <br> Length: mm, cm, m, km <br> Mass: mg, g, kg <br> Volume: ml, cl, 1 | ```1kilometres = 1000 metres 1 \text { metre = 100 centimetres} 1 \text { centimetre = 10 millimetres} 1 kilogram = 1000 grams``` |
| 2. Imperial System | A system of weights and measures originally developed in England, usually based on human quantities <br> Length: inch, foot, yard, miles <br> Mass: lb, ounce, stone <br> Volume: pint, gallon | $\begin{gathered} 1 \mathrm{lb}=16 \text { ounces } \\ 1 \text { foot }=12 \text { inches } \\ 1 \text { gallon }=8 \text { pints } \end{gathered}$ |
| 3. Metric and Imperial Units | Use the unitary method to convert between metric and imperial units. | 5 miles $\approx 8$ kilometres <br> 1 gallon $\approx 4.5$ litres <br> 2.2 pounds $\approx 1$ kilogram <br> 1 inch $=2.5$ centimetres |
| 4. Speed, Distance, Time | Speed = Distance $\div$ Time <br> Distance $=$ Speed x Time <br> Time $=$ Distance $\div$ Speed <br> Remember the correct units. | Speed $=4 \mathrm{mph}$ <br> Time $=2$ hours <br> Find the Distance. $D=S \times T=4 \times 2=8 \text { miles }$ |
| 5. Density, Mass, Volume | Density = Mass $\div$ Volume <br> Mass = Density x Volume <br> Volume $=$ Mass $\div$ Density <br> Remember the correct units. | Density $=8 \mathrm{~kg} / \mathrm{m}^{3}$ <br> Mass $=2000 \mathrm{~g}$ <br> Find the Volume. $V=M \div D=2 \div 8=0.25 \mathrm{~m}^{3}$ |
| 6. Pressure, Force, Area | Pressure $=$ Force $\div$ Area <br> Force $=$ Pressure $\mathbf{x}$ Area <br> Area $=$ Force $\div$ Pressure | Pressure $=10$ Pascals Area $=6 \mathrm{~cm}^{2}$ <br> Find the Force |


|  |  | $F=P \times A=10 \times 6=60 \mathrm{~N}$ |
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|  | Remember the correct units. |  |

