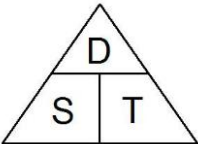
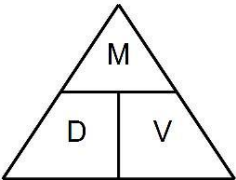
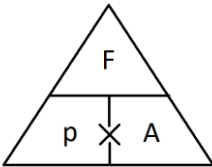


Topic: Compound Measures

Topic/Skill	Definition/Tips	Example
1. Metric System	<p>A system of measures based on:</p> <ul style="list-style-type: none"> - the metre for length - the kilogram for mass - the second for time <p>Length: mm, cm, m, km Mass: mg, g, kg Volume: ml, cl, l</p>	<p><i>1 kilometre = 1000 metres</i> <i>1 metre = 100 centimetres</i> <i>1 centimetre = 10 millimetres</i></p> <p><i>1 kilogram = 1000 grams</i></p>
2. Imperial System	<p>A system of weights and measures originally developed in England, usually based on human quantities</p> <p>Length: inch, foot, yard, miles Mass: lb, ounce, stone Volume: pint, gallon</p>	<p><i>1 lb = 16 ounces</i> <i>1 foot = 12 inches</i> <i>1 gallon = 8 pints</i></p>
3. Metric and Imperial Units	<p>Use the unitary method to convert between metric and imperial units.</p>	<p><i>5 miles ≈ 8 kilometres</i> <i>1 gallon ≈ 4.5 litres</i> <i>2.2 pounds ≈ 1 kilogram</i> <i>1 inch = 2.5 centimetres</i></p>
4. Speed, Distance, Time	<p>Speed = Distance ÷ Time Distance = Speed x Time Time = Distance ÷ Speed</p> <div style="text-align: center;">  </div> <p>Remember the correct units.</p>	<p>Speed = 4mph Time = 2 hours</p> <p>Find the Distance.</p> <p>$D = S \times T = 4 \times 2 = 8 \text{ miles}$</p>
5. Density, Mass, Volume	<p>Density = Mass ÷ Volume Mass = Density x Volume Volume = Mass ÷ Density</p> <div style="text-align: center;">  </div> <p>Remember the correct units.</p>	<p>Density = 8kg/m³ Mass = 2000g</p> <p>Find the Volume.</p> <p>$V = M \div D = 2 \div 8 = 0.25m^3$</p>
6. Pressure, Force, Area	<p>Pressure = Force ÷ Area Force = Pressure x Area Area = Force ÷ Pressure</p>	<p>Pressure = 10 Pascals Area = 6cm²</p>



	 <p>Remember the correct units.</p>	<p>Find the Force</p> $F = P \times A = 10 \times 6 = 60 \text{ N}$
<p>7. Distance-Time Graphs</p>	<p>You can find the speed from the gradient of the line (Distance \div Time) The steeper the line, the quicker the speed. A horizontal line means the object is not moving (stationary).</p>	