

Unit 3: Length, Area, and Volume

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3.1: Systems of Measurement

- Imperial System (United States)
 - o 1 yard (yd) = 3 feet (ft)
 - o 1 foot (ft) = 12 inches (in)
 - o **You cannot say that 9 inches is a 0.9 of a foot because there are 12 inches in a foot.**
 - **To find this decimal, you much find what 9/12 of a foot is (9inches = 0.75 ft)**
- Systeme International (Metric) (Canada)
 - o 1 kilometre (km) = 1000 metres (m)
 - o 1 metre (m) = 100 centimetres (cm)
 - o 1 centimetre (cm) = 10 millimetres (mm)
 - o **You can have a decimal of a metre or centimetre quite easily because it works with factors of 10!**
- Be able to convert between Imperial and SI
 - o See conversions sheet
 - o Set up **proportions** to find the new units.
- Be able to calculate perimeter (circumference for circles)
 - o See equations sheet

3.2: Converting Measurements

- Be able to convert within a measurement system (cm to m, in to ft, etc.) and between the two systems (cm to ft, inches to m, etc)
 - o Use proportions for this
 - o With word problems **pay attention to the units given and the units being asked for as the answer!!**
 - Make sure units are the same before beginning calculations!

3.3: Surface Area

- The amount of space a surface takes up (units are squared: m^2 , cm^2 , ft^2 , in^2 , etc)
- Be able to calculate the surface area of a 3-D shape
 - o Calculate area of each side and then add them up
 - o Make sure you know which sides are given, and if any areas should be subtracted (windows/doors)

3.4: Volume

- Volume is the space a 3D object takes up
 - o Units are cubed: m^3 , cm^3 , ft^3 , in^3
- Be able to use formulas on formula sheet to calculate these
 - o Pay attention to units.
 - o Make sure units are the same before calculations

Unit 4: Mass, Temperature, and Volume

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4.1: Temperature Conversions

- Be able to convert between Fahrenheit and Celsius using the equations on the equation sheet
 - o Remember the BEDMAS rules for these!
 - o C= Celsius and F= Fahrenheit

4.2: Mass in the Imperial System

- Convert between imperial measures (ounces, pounds, ton)
 - o Make sure units are all the same before calculations

4.3: Mass in the Systeme International

- Convert between the SI measures (gram, kilogram, milligram, tonne)
 - o Make sure all units are the same before calculations!

4.4: Making Conversions with Mass

- Be able to convert between Imperial mass and SI mass using conversions on conversion sheet.