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ST JOHN
UNIVERSITY
Student Life
Library and
Learning Services

## Conversions

Study Development Quick Guide

## Mass conversions

| kg to g | Mass in $\mathrm{g}=$ mass in $\mathrm{kg} \times 1000$ |
| :---: | :---: |
| g to kg | $\text { Mass in } \mathrm{kg}=\frac{\text { mass in } \mathrm{g}}{1000}$ |
| g to mg | Mass in mg= mass in g x 1000 |
| mg to g | Mass in $\mathrm{g}=\frac{\text { mass in } \mathrm{mg}}{1000}$ |
| mg to micrograms | Mass in micrograms = mass in mg x 1000 |
| micrograms to mg | $\text { Mass in } \mathrm{mg}=\frac{\text { mass in micrograms }}{1000}$ |

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## Length conversions

| km to m | Length in $\mathrm{m}=$ length in $\mathrm{km} \times 1000$ |
| :---: | :---: |
| m to km | Length in $\mathrm{km}=\frac{\text { length in } \mathrm{m}}{1000}$ |
| m to cm | Length in $\mathrm{cm}=$ length in $\mathrm{m} \times 100$ |
| cm to m | Length in $\mathrm{m}=\frac{\text { length in } \mathrm{cm}}{1000}$ |
| m to mm | Length in $\mathrm{m}=\frac{\text { length in } \mathrm{mm}}{1000}$ |
| mm to m | Length in micrometres $=$ length in $\mathrm{mm} \times 1000$ |
| mm to <br> micrometres | Length in mm $=\frac{\text { length in micrometres }}{1000}$ <br> micrometres to <br> $m m$ |

## Conversions

## Volume conversions

| CL to mL | Volume in $\mathrm{mL}=$ volume in $\mathrm{cL} \times 10$ |
| :---: | :---: |
| mL to cL | Volume in $\mathrm{cL}=\frac{\text { volume in } \mathrm{mL}}{10}$ |
| L to mL | Volume in $\mathrm{mL}=$ volume in $\mathrm{L} \times 1000$ |
| mL to L | Volume in $\mathrm{L}=\frac{\text { volume in } \mathrm{mL}}{1000}$ |
| mL to |  |
| microlitres |  |$\quad$ Volume in microlitres $=$ volume in $\mathrm{mL} \times 1000$.

## Conversions

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## Weight conversions

Here we say 'weight' to mean 'bodyweight', though these are all actually measures of mass.

| kg to lbs | Weight in lbs = weight in $\mathrm{kg} \times 0.454$ |
| :---: | :---: |
| lbs to kg | $\text { Weight in } \mathrm{kg}=\frac{\text { weight in lbs }}{0.454}$ |
| lbs to st | Weight in st = weight in lbs $\times 14$ |
| st to lbs | $\text { Weight in lbs }=\frac{\text { weight in st }}{14}$ |
| st and lbs to lbs | $\begin{gathered} \text { Weight in lbs = (weight written before st x 14) }+(\text { weight } \\ \text { written in lbs }) \end{gathered}$ |
| lbs to st and lbs | To find the weight in st and lbs from a weight that is in lbs we need to: <br> - Calculate: $\frac{\text { weight in Ibs }}{14}$ <br> - If this value is not a whole number (ie if there is anything after the decimal point other than zeros) then we ignore the numbers after the decimal point. For example, if we had 10.45 , we would just write 10 . This is the number of stones. <br> - Calculate: weight in lbs - (number of stones x 14 ) <br> - This is the number of pounds. <br> Write the weight as 'number of stones st number of pounds'. |

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