Noteset 7A (Part 2) - In Class Noteset

Volume and Volume Unit Conversions

Volume (V)

The space that an object occupies (take up) in the universe

box

Universe (nature)

Equations for Volume

Square [math]

$V_{square} = \ell \cdot w \cdot h$

Circle	Cylinder
$V = \frac{4}{3} \pi \cdot r^3$	$V = \pi \cdot r^2 \cdot h$

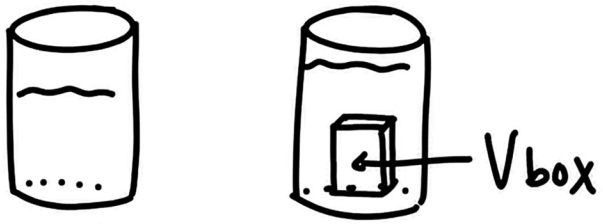
Unit: cm^3 or m^3

Volume by difference

Using a tool used to measure volume to meas. vol. of an object

Vol. by Difference

Before **After**



V_{water} V_{total}

$V_{box} = V_{total} - V_{water}$

Units of Volume

Math: cm^3 or m^3

Science mL or L

Conversion Factor

$1\ cm^3 = 1\ mL$ | $1\ L = 1000\ mL$

Conversions

mL → L

start mL | 1 L

1000 mL

L → mL = ___ L

start L | 1000 mL

1 L

= ___ mL