



BIOLOGY LAB EQUIPMENT

| MENSURATION | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A graphical list of the formulas for measurement concepts. | |
| <p>Rectangle</p> <p>Perimeter $P = 2l + 2b$</p> <p>Area Length \times breadth $A = lb$</p> | <p>Cube</p> <p>Lateral Surface area = $4s^2$</p> <p>Total Surface area = $6s^2$</p> <p>Volume = s^3</p> <p>$s =$ Side</p> |
| <p>Circle</p> <ul style="list-style-type: none"> • Diameter = 2 radius • Circumference = π diameter or 2π radius • Area = π radius² ($\pi = 3.14$) | <p>Rectangular Solid (Cuboid)</p> <p>Volume Length \times Breadth \times Height $V = lbh$</p> <p>Surface Area = $2(lb + bh + hl)$</p> |
| <p>Triangle</p> <p>Perimeter $P = a + b + c$</p> <p>Area $\frac{1}{2}$ of the base \times the height $A = \frac{1}{2}bh$</p> | <p>Cylinder</p> <p>Volume $V = \pi r^2 h$</p> <p>Surface Area = 2π radius \times height $S = 2\pi rh$</p> |
| <p>Trapezium</p> <p>Perimeter $P = a + b1 + b2 + c$</p> <p>Area $\frac{(b1 + b2)h}{2}$</p> | <p>Cone</p> <p>Volume $V = \frac{1}{3} \pi r^2 h$</p> <p>Total Surface Area = $\pi r^2 + \pi r l$</p> |
| <p>Parallelogram</p> <p>Area = Base \times height $A = bh$</p> | <p>Sphere</p> <p>Volume $V = \frac{4}{3} \pi r^3$</p> <p>Surface Area = $4\pi r^2$</p> |

CHARTS ON SYNTHETIC PAPER FOR BIOLOGY LAB

