

2

Conversion d'unités et autres formules

Pour les conversions, on peut utiliser un tableau :

Volumes	km ³	hm ³	dam ³	m ³	dm ³	cm ³	mm ³
Capacités				kL	hL daL L	dL cL mL	
					1	0 0 0	

On a les égalités permettant de passer des volumes aux capacités :

- 1 m³ = 1000 L
- 1 dm³ = 1L
- 1 cm³ = 1mL

➔ **Exemples** : Convertir les longueur suivantes :

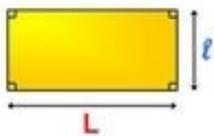
- 23,000 5 m³ = dm³
- 215 cm³ = m³
- 2,1 L = dL

3

Formules d'aires et de volumes

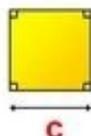
AIRES

RECTANGLE



$$A = L \times l$$

CARRE



$$A = c \times c = c^2$$

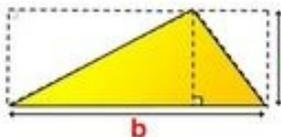
CERCLE - DISQUE



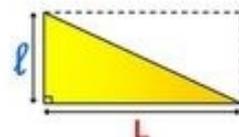
$$P = 2\pi r$$

$$A = \pi r^2$$

TRIANGLES



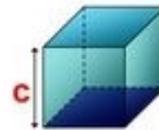
$$A = \frac{b \times h}{2}$$



$$A = \frac{L \times l}{2}$$

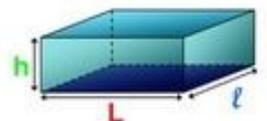
VOLUMES

CUBE



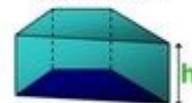
$$V = c \times c \times c = c^3$$

PARALLELEPIPEDE RECTANGLE



$$V = L \times l \times h$$

PRISME DROIT



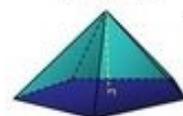
$$V = A_{\text{Base}} \times h$$

CYLINDRE DE REVOLUTION



$$V = A_{\text{Base}} \times h$$

PYRAMIDE



$$V = \frac{A_{\text{Base}} \times h}{3}$$

CONE DE REVOLUTION



$$V = \frac{A_{\text{Base}} \times h}{3}$$

