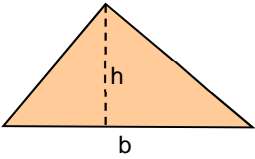
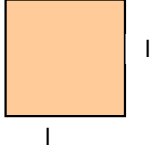
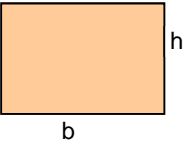
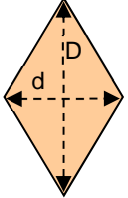
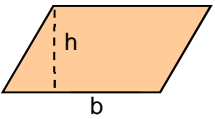
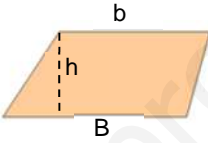
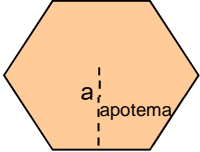
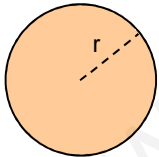
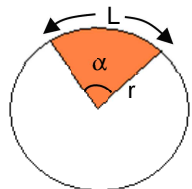
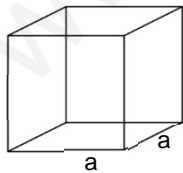
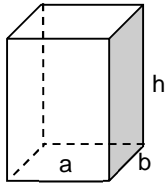
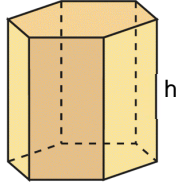
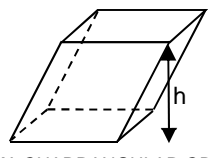
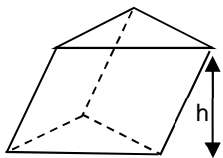
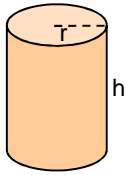


# ÁREAS y VOLÚMENES 2º y 3º ESO

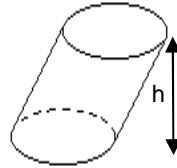
ÁREAS	<b>Triángulo:</b>		$A = \frac{b \cdot h}{2}$	<b>Cuadrado:</b>		$A = l^2$
	<b>Rectángulo:</b>		$A = b \cdot h$	<b>Rombo:</b>		$A = \frac{D \cdot d}{2}$ (semiproducto de las diagonales)
	<b>Paralelogramo:</b> (Romboide <sup>1</sup> )		$A = b \cdot h$	<b>Trapecio:</b>		$A = \frac{B + b}{2} \cdot h$ (semisuma de las bases por altura)
	<b>Polígonos regulares:</b>					
			$A = \frac{p \cdot a}{2}$ (semiproducto de perímetro y apotema)			
	<b>Circunferencia:</b>		$\text{Área} = \pi r^2$  $\text{Longitud} = 2 \pi r$	<b>Sector circular:</b>		$\text{área: } A = \frac{\pi r^2 \alpha}{360}$  $\text{longitud del arco: } L = \frac{2 \pi r \alpha}{360}$
<b>Prismas:</b>						
VOLÚMENES				$V = A_{\text{base}} \cdot h$  $A = A_{\text{lateral}} + 2 \cdot A_{\text{base}}$		
	<p>CUBO (Hexaedro regular) <math>V = a^3</math></p>	<p>PRISMA CUADRANGULAR RECTO (ORTOEDRO) <math>V = a b h</math></p>	<p>PRISMA HEXAGONAL RECTO</p>			
						
	<p>PRISMA CUADRANGULAR OBLICUO PARALELEPÍPEDO</p>	<p>PRISMA TRIANGULAR OBLICUO</p>				

## Cilindros:

CILINDRO  
(CIRCULAR)  
RECTO

$$V = A_{\text{base}} \cdot h = \pi r^2 h$$

$$A = A_{\text{lateral}} + 2 \cdot A_{\text{base}} = 2\pi r h + 2\pi r^2$$

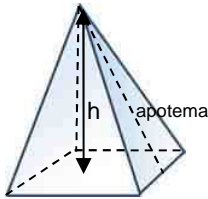
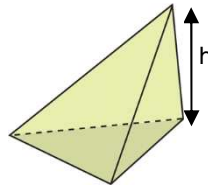
CILINDRO  
OBLICUO

$$V = A_{\text{base}} \cdot h$$

(La base puede ser un círculo o una elipse)

$$A = A_{\text{lateral}} + 2 \cdot A_{\text{base}}$$

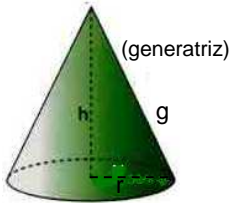
## Pirámides:

PIRÁMIDE CUADRANGULAR  
RECTAPIRÁMIDE TRIANGULAR  
OBLICUA (TETRAEDRO)

$$V = \frac{1}{3} A_{\text{base}} \cdot h$$

$$A = A_{\text{lateral}} + A_{\text{base}}$$

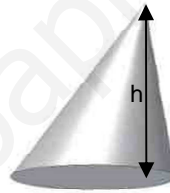
## Conos:



CONO (CIRCULAR) RECTO

$$V = \frac{1}{3} A_{\text{base}} \cdot h = \frac{1}{3} \pi r^2 h$$

$$A = A_{\text{lateral}} + A_{\text{base}} = \pi r g + \pi r^2$$



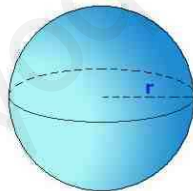
CONO OBLICUO

$$V = \frac{1}{3} A_{\text{base}} \cdot h$$

(La base puede ser un círculo o una elipse)

$$A = A_{\text{lateral}} + A_{\text{base}}$$

## Esfera:



$$V = \frac{4}{3} \pi r^3$$

$$A = 4 \pi r^2$$