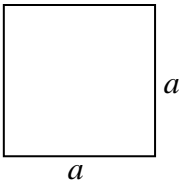

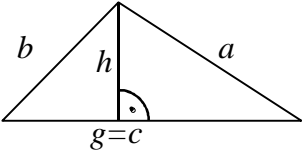
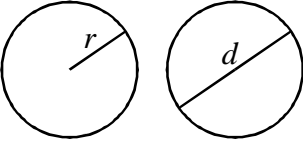
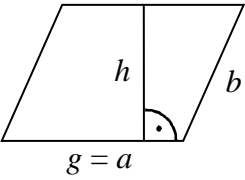
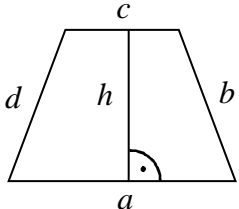
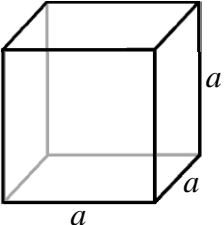
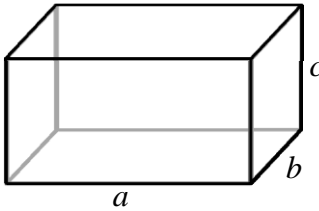
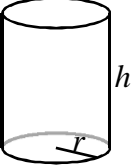


## Formelsammlung für den Hauptschulabschluss nach Klasse 9

Ebene Figuren (A: Flächeninhalt u: Umfang)	
<b>Quadrat</b> $A = a^2$ $u = 4 \cdot a$ 	<b>Rechteck</b> $A = a \cdot b$ $u = 2 \cdot a + 2 \cdot b$ 
<b>Dreieck</b> $A = \frac{g \cdot h}{2}$ $u = a + b + c$ 	<b>Kreis</b> $d = 2 \cdot r$ $A = \pi \cdot r^2 = \pi \cdot \frac{d^2}{4}$ $u = 2 \cdot \pi \cdot r = \pi \cdot d$ 
<b>Parallelogramm</b> $A = g \cdot h$ $u = 2 \cdot a + 2 \cdot b$ 	<b>Trapez</b> $A = \frac{a+c}{2} \cdot h$ $u = a + b + c + d$ 
Körper (V: Volumen O: Oberfläche G: Grundfläche M: Mantelfläche)	
<b>Würfel</b> $V = a^3$ $O = 6 \cdot a^2$ 	<b>Quader</b> $V = a \cdot b \cdot c$ $O = 2 \cdot a \cdot b + 2 \cdot a \cdot c + 2 \cdot b \cdot c$ 
<b>Zylinder</b> $V = \pi \cdot r^2 \cdot h$ $O = 2 \cdot \pi \cdot r^2 + 2 \cdot \pi \cdot r \cdot h$ 	
Maßeinheiten	
<b>Länge</b> 1 km = 1 000 m 1 m = 10 dm 1 dm = 10 cm 1 cm = 10 mm	<b>Fläche</b> 1 m <sup>2</sup> = 100 dm <sup>2</sup> 1 dm <sup>2</sup> = 100 cm <sup>2</sup> 1 cm <sup>2</sup> = 100 mm <sup>2</sup> 1 a = 100 m <sup>2</sup> 1 ha = 10 000 m <sup>2</sup>
<b>Volumen</b> 1 m <sup>3</sup> = 1 000 dm <sup>3</sup> 1 dm <sup>3</sup> = 1 000 cm <sup>3</sup> 1 cm <sup>3</sup> = 1 000 mm <sup>3</sup> Liter (l) 1 l = 1 dm <sup>3</sup> 1 ml = 1 cm <sup>3</sup>	<b>Masse</b> 1 t = 1 000 kg 1 kg = 1 000 g 1 g = 1 000 mg
Prozentrechnung	
G: Grundwert W: Prozentwert p %: Prozentsatz	$W = \frac{G \cdot p}{100}$ $G = \frac{W \cdot 100}{p}$ $p = \frac{W \cdot 100}{G}$
Zinsrechnung	
K: Kapital Z: Zinsen p%: Zinssatz in Prozent t: Zeit	$Z = \frac{K \cdot t \cdot p}{100}$ (t in Jahren) $Z = \frac{K \cdot t \cdot p}{100 \cdot 360}$ (t in Tagen)