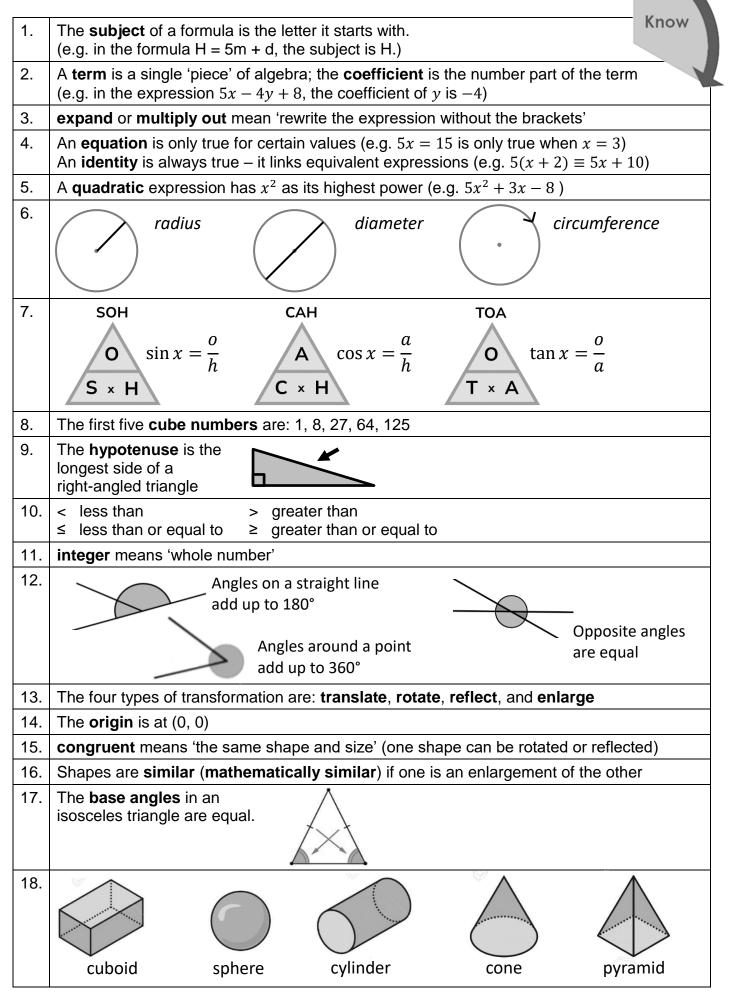
ESSENTIAL KNOWLEDGE FOR YEAR 10 (H)

(LEARN THESE KEY FACTS FROM PREVIOUS YEARS)



19.	factorise means 'put into brackets'
20.	A difference of two squares is an expression with two 'squares' subtracted e.g. $x^2 - 25$ They factorise into two brackets like this: $(x + 5)(x - 5)$
21.	A graph showing direct proportion is: - a straight line - with positive gradient - through the origin
22.	positive correlation negative correlation
23.	An outlier is a genuine piece of data which doesn't fit the pattern of the rest of the data An anomaly is a piece of data which is a mistake
24.	Angles near parallel lines: alternate angles are equal are equal are equal are equal
	co-interior angles add up to 180°
25.	class or class interval means 'group' (e.g. height (cm): $0 < h \le 20$)
26.	A line segment is a short section of a line, joining two points
27.	bisect means 'cut exactly in half'
28.	perpendicular means 'at right angles'
29. 30.	A locus is a set of points that follow a rule (plural: loci) A prism has the same shape running all the way through the middle Know
31.	In the general line equation $y = mx + c$, <i>m</i> is the gradient (steepness), and <i>c</i> is the y-axis intercept (e.g. the line $y = 3x - 2$ has gradient 3 and crosses the y-axis at -2)
32.	For the surface area of a solid, find the area of each face and add them all together
33.	Volume of a cylinder: $\stackrel{r}{\longleftrightarrow}$
	$V = \pi r^2 \times h$
34.	perimeter is the total distance around the outside of a shape
35.	Anything to power 0 is 1 (e.g. $17^0 = 1$, $p^0 = 1$)
36.	index means power (plural: indices)

