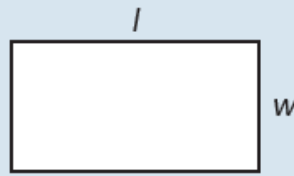


Year 10 FOUNDATION Tier Learn Sheet December 2016

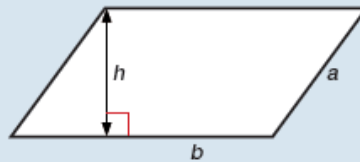
Formulae to learn by heart:

Areas

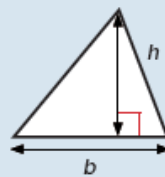
$$\text{Rectangle} = l \times w$$



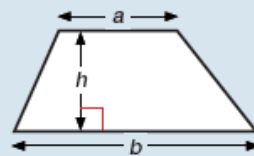
$$\text{Parallelogram} = b \times h$$



$$\text{Triangle} = \frac{1}{2} b \times h$$



$$\text{Trapezium} = \frac{1}{2} (a + b)h$$

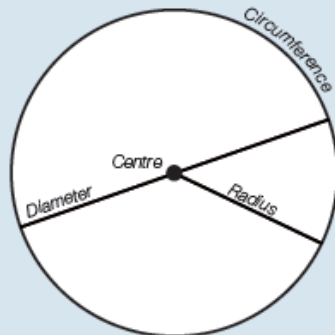


Circles

$$\text{Circumference} = \pi \times \text{diameter}, C = \pi d$$

$$\text{Circumference} = 2 \times \pi \times \text{radius}, C = 2\pi r$$

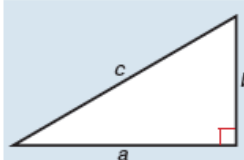
$$\text{Area of a circle} = \pi \times \text{radius squared } A = \pi r^2$$



Pythagoras

Pythagoras' Theorem

For a right-angled triangle,
 $a^2 + b^2 = c^2$



Trigonometric ratios (new to F)

$$\sin x^\circ = \frac{\text{opp}}{\text{hyp}}, \cos x^\circ = \frac{\text{adj}}{\text{hyp}}, \tan x^\circ = \frac{\text{opp}}{\text{adj}}$$

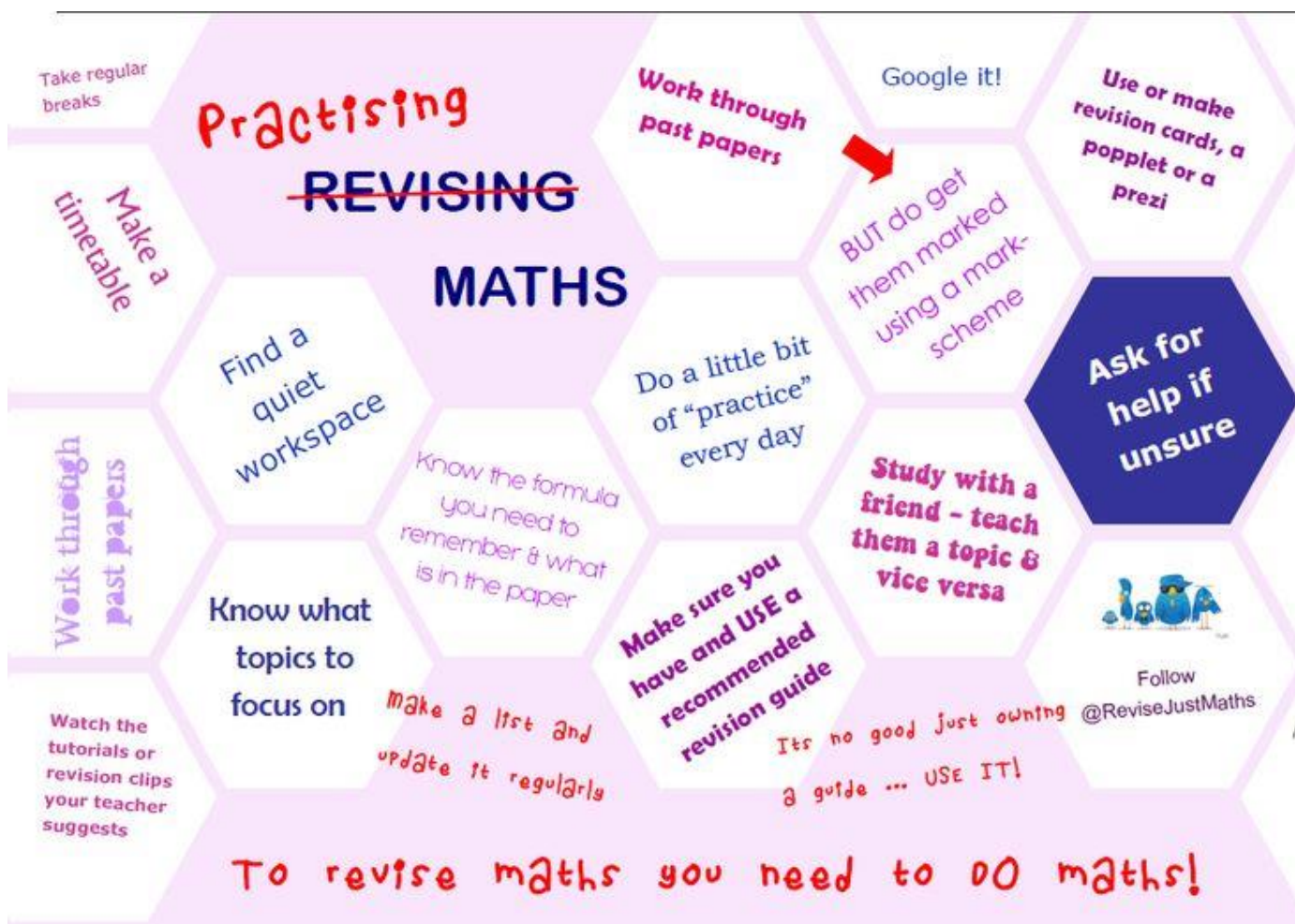


Topics to revise

Angle facts - in a triangle
Angle facts - int/ext angles
Calculate mean, median
Calculate probabilities
Change the subject
Currency conversion
Density
Drawing 3D cuboids
Form an expression
Fraction of an amount

Fractions, %age & and ratio
Growth and decay
Limits of accuracy
Median from a table
Multiplication
Order integers
Place value
Problem solving with money
Proportional reasoning
Reciprocal functions

Relate ratio to fractions
Share in a given ratio
Similarity
Simultaneous equations
Standard units of time
Substitution
Surface area of a prism
Systematic listing
Venn diagrams
Volume of prisms
Work out the range



Revision websites:

www.mymaths.co.uk (username: immanuelc password: square)

<https://www.bbc.co.uk/education/examspecs/z9p3mnb>

<http://www.mrbartonmaths.com/>

http://www.themathsteacher.com/gcse_maths.php

<http://studymaths.co.uk/>

<https://corbettmaths.com/>