Year 11 Assessment A

Non-Calculator

Assessment 1: 22nd April 2021

Assessment 2: 23rd April 2021

Foundation Tier

Paper A1 Topic List

Use: vle.mathswatch.co.uk

Ordering decimals
Rounding
Place value
Pictograms
Ratio (simplifying, conversion to fractions)
Reflection
Bearings and scales
Averages from frequency tables
Fractions and percentages of amounts
Rearranging formulae
Index Laws
Prime factor decomposition
Decimal multiplication
Pythagoras' Theorem

Paper A2 Topic List

Use: vle.mathswatch.co.uk

Rounding to decimal places
Fraction to percentage conversion
Probability scale
Operations with fractions: multiplying and subtracting
Money calculations
Sequences - pictorial
Scale and estimation
Area of triangles and rectangles
Proportion and solving equations
Percentage increase
Sequences – finding the nth term of a linear sequence
Recognising graphs: cubic; quadratic; reciprocal
Angles in parallel lines and triangles
Compound measures ($Pressure = \frac{Force}{Area}$)
Ratio to fraction conversions

Revision?

1) Complete the work set on vle.mathswatch.co.uk

This work will be specific to your upcoming assessments.

2) Watch the associated videos if you are stuck.
3) Utilise the practice exam packs you have been given. Worked solutions for each pack are on classcharts.
4) Utilise corbettmaths.com for further videos

MathsWatch

Corbettmaths

GCSE Mathematics Practice Tests: Set 1

Year 11 Assessment B

Calculator

Assessment 3: 29th April 2021

Foundation Tier

Paper B1 Topic List

Use: vle.mathswatch.co.uk

Converting decimals to fractions
Simplifying algebraic expressions
Recognising cube numbers
Bar charts
Conversions using scales
Volume of cuboids
Substitution
Scaling recipes
Simplifying ratios
Expressing proportions algebraically
Determining gradient from an equation of a line
Lowest common multiple
Highest common factor (index notation)
Drawing quadratic graphs
Solving equations graphically
Compound measures ($Pressure = \frac{Force}{Area}$)

Revision?

5) Complete the work set on vle.mathswatch.co.uk

This work will be specific to your upcoming assessments.

6) Watch the associated videos if you are stuck.
7) Utilise the practice exam packs you have been given. Worked solutions for each pack are on classcharts.
8) Utilise corbettmaths.com for further videos

MathsWatch

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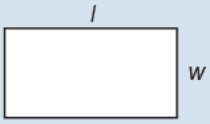
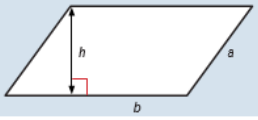
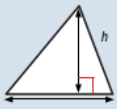
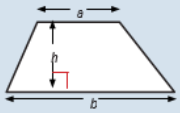
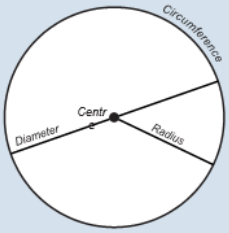
GCSE Mathematics Practice Tests: Set 1

Formulae provided in the assessments (F)

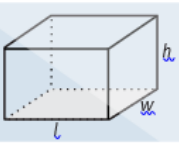
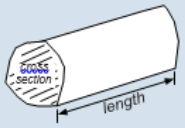
Areas

Rectangle = $l \times w$	
Parallelogram = $b \times h$	
Triangle = $\frac{1}{2} b \times h$	
Trapezium = $\frac{1}{2}(a + b)h$	

Circles

Circumference = $\pi \times$ diameter, $C = \pi d$	
Circumference = $2 \times \pi \times$ radius, $C = 2\pi r$	
Area of a circle = π x radius squared $A = \pi r^2$	

Volumes

Cuboid = $l \times w \times h$	
Prism = area of cross section × length	
Cylinder = $\pi r^2 h$	

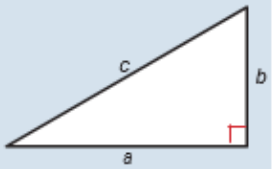
Compound measures

Speed speed = $\frac{\text{distance}}{\text{time}}$	
Density density = $\frac{\text{mass}}{\text{volume}}$	
Pressure pressure = $\frac{\text{force}}{\text{area}}$	

Pythagoras

Pythagoras' Theorem

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



Trigonometric ratios (*new to F*)

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