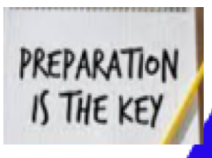
Year 11 Foundation - Mathematics

Links to careers/SMSC/Personal Development:

The National Career Service, Prospects, UCAS, STEM, MindTools provides a wealth of information on various careers, including job profiles, salary expectations, and required qualifications. These resources can help Year 11 math students explore potential career paths, develop essential life skills, and foster personal growth. Encourage them to actively engage with these resources to prepare for their future academic and professional journeys. UK Mathematics Trust (UKMT) offers mathematical competitions, challenges, and resources for students interested in advanced math. Maths watch, Maths genie have very good resources to access exam style questions and modelled student friendly solutions. These resources can help Year 11 math students explore potential career paths, develop essential life skills, and plan for their future academic and professional journeys. Encourage them to actively engage with these resources to make informed decisions about their futures.

LEARNING JOURNEY



a) Career pathway- Sixth form College, Apprenticeships, …….



GCSE revision and preparation



Corbettmaths

Mock 2
23rd Feb. – 2nd March

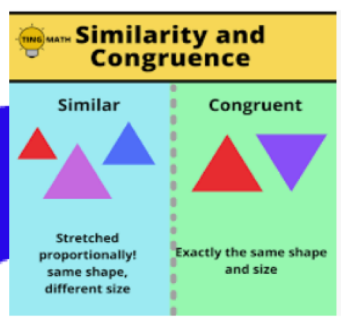
Home learning: Weekly on MathsWatch

MathsWatch

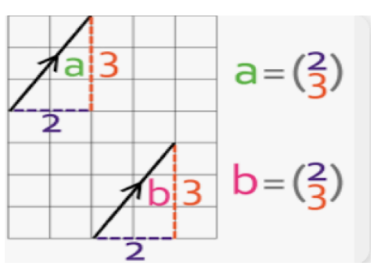
Maths Genie

On Maths

Finding missing lengths in similar shapes



Similarity and congruence in 2D



Parallel vectors

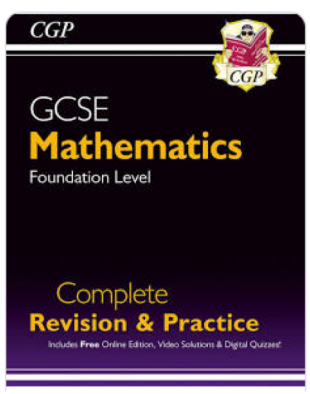
Add and subtract vectors

Vectors

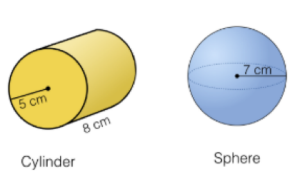
Question level analysis

Question Level Analysis

Nov Mocks
5th -14th



Cylinders, cones & speres



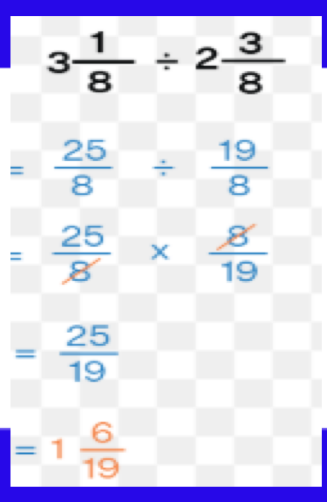
Surface area of cylinder

Drawing and interpreting pie charts

Data

Pictograms

Best Buy



Proportion

Divide mixed number fractions

Fractions

Home learning: Weekly on MathsWatch

Key:
Unit Topics
Sub Topics
Revision

Year 11 learning summary: Rationale

In Year 11 we will explore the following:

Review of multiplicative reasoning, Fractions, Decimal - Geometry and Trigonometry, Statistics and Probability.

Review and Preparation-Review all topics covered during the year. Practice with past exam papers and sample questions. Work on time management skills for exams. Use exam question analysis to inform planning strategically to tackle GCSE questions to make progress.

Receive feedback on progress and areas for improvement. Set goals for Year 12 mathematics and beyond. By following this Year 11 learning journey, students will have a comprehensive understanding of fundamental mathematical concepts, strong problem-solving skills, and the necessary preparation for Year 12 and beyond, whether they plan to continue studying mathematics at an advanced level or pursue other academic or career pathways. Sixth form, college or apprenticeship post 16

Year 11 Higher - Mathematics

Links to careers/SMSC/Personal Development:

The National Career Service, Prospects, UCAS, STEM, MindTools provides a wealth of information on various careers, including job profiles, salary expectations, and required qualifications. These resources can help Year 11 math students explore potential career paths, develop essential life skills, and foster personal growth. Encourage them to actively engage with these resources to prepare for their future academic and professional journeys. UK Mathematics Trust (UKMT) offers mathematical competitions, challenges, and resources for students interested in advanced math. Maths watch, Maths genie have very good resources to access exam style questions and modelled student friendly solutions. These resources can help Year 11 math students explore potential career paths, develop essential life skills, and plan for their future academic and professional journeys. Encourage them to actively engage with these resources to make informed decisions about their futures.

LEARNING JOURNEY



GCSE revision and preparation

a) Career pathway- Sixth form, College and Apprenticeships, …….



Corbettmaths

Corbett maths

On Maths

ONMATHS.COM

Maths Genie

Mock 2
23rd Feb. – 2nd March

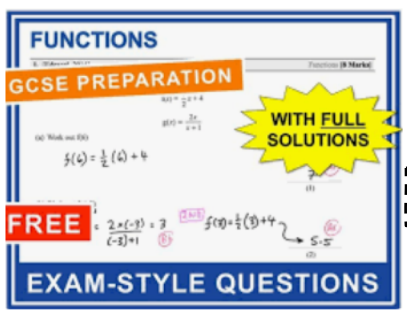
Home learning: Weekly on MathsWatch

MathsWatch

Maths Genie
Learn maths for free

Transformations of trigonometric functions

sketch and interpret trigonometric functions

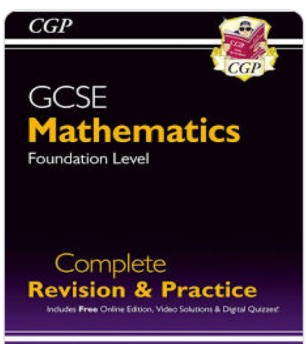


Functions



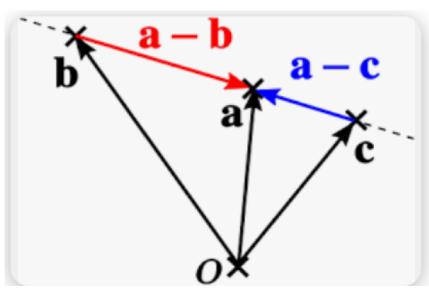
Question level analysis

Nov Mocks
5th – 14th



Practice exams style questions

Sine and cosine rule in 3D

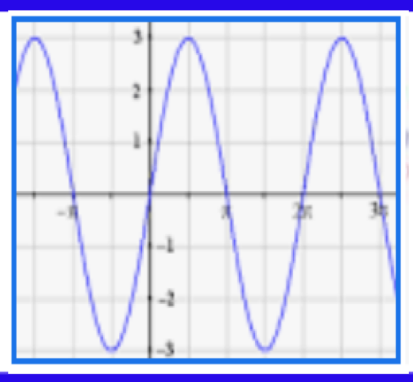


Resultant of two vectors

Vectors

Pythagoras in 3D

Further trigonometry



$$\frac{5}{1+\sqrt{2}}$$

Rationalising surds

Algebra

Home learning: Weekly on MathsWatch

Key:
Unit Topics
Sub Topics
Revision



Year 11 learning summary: Rationale

In Year 11 we will explore the following:

Algebra Fundamentals- Geometry and Trigonometry, Statistics and Probability.

Review and Preparation-Review all topics covered during the year. Practice with past exam papers and sample questions. Work on time management skills for exams. Use exam question analysis to inform planning strategically to tackle GCSE questions to make progress.

Receive feedback on progress and areas for improvement. Set goals for Year 12 mathematics and beyond. By following this Year 11 learning journey, students will have a comprehensive understanding of fundamental mathematical concepts, strong problem-solving skills, and the necessary preparation for Year 12 and beyond, whether they plan to continue studying mathematics at an advanced level or pursue other academic or career pathways. Sixth form, college or apprenticeship post 16