



# CEC 5 year Learning Journey: Mathematics

<b>Courses</b>	GCSE Mathematics is an entry requirement for a majority of Post-16 courses
<b>Careers</b>	Agriculture, Education, Engineering, Retail, Construction, Finance, Medicine, Research
<b>Skills</b>	Problem solving, analyzing data, communication, logical thinking and attention to detail
<b>Real World</b>	Asking/answering questions about your world and making decisions based on evidence

## Revision and GCSE Exams

**Cycle 2**

- Revision
- Super Teaching
- Exam preparation

**Cycle 1**

- Ratio, Proportion & Rates of change
- Number
- Algebra

Year **11**

**Cycle 3**

- Circles, Cylinders, Cones & Spheres
- Averages & Statistical Diagrams
- Constructions & Loci (F)
- Right-Angles triangles (F)
- Geometry (H)

**Cycle 2**

- Measures & Real-life graphs
- Ratio, Proportion & Rates of change (H)
- Vectors, Transformations & Congruence
- Algebra (H)
- Quadratic & Simultaneous equations

**Cycle 2**

- Fractions
- Decimals & Percentages
- Theoretical & Experimental Probability
- Sequences
- Straight-Line Graphs

**Cycle 3**

- Angle & Shape Properties
- Right-Angle Triangles
- Collecting & Representing data
- Indices, Surds & Prime Factors

Year **10**

**Cycle 1**

- Number & Algebra
- Geometry (H)
- Equations, Inequalities & Formulae
- Ratio, Proportion & Scale
- Venn & Tree Diagrams

**Cycle 2**

- Measures & Real-life graphs
- Ratio, Proportion & Rates of change (H)
- Vectors, Transformations & Congruence
- Algebra (H)
- Quadratic & Simultaneous equations

**Cycle 1**

- Rounding & Estimating
- Roots, Indices & Standard Form (H)
- Operations
- Algebraic Expressions
- 2D & 3D Shapes

Year **9**

**Cycle 3**

- Number
- Ratio, Proportion, Rates of change x 3
- Geometry x 2
- Algebra

**Cycle 2**

- Number
- Data Handling
- Algebra
- Geometry

**Cycle 2**

- Number x2
- Geometry
- Data Handling
- Algebra

**Cycle 3**

- Geometry x 3
- Number
- Ratio, Proportion & rates of change
- Data Handling x 2
- Algebra

Year **8**

**Cycle 1**

- Number
- Ratio, Proportion, Rates of change
- Geometry
- Algebra
- Data Handling

**Cycle 2**

- Number
- Data Handling
- Algebra
- Geometry

**Cycle 1**

- Number x2
- Geometry
- Data Handling
- Algebra
- Ratio & Proportion

Year **7**

**Summer Term**

- Geometry - properties of shapes
- Problem solving
- Statistics

Year **6**

**A01**

**A02**

**A03**

**Use and apply standard techniques**

- accurately recall facts, terminology and definitions
- use and interpret notation correctly

**Reason, interpret and communicate mathematically**

- make deductions, inferences and draw conclusions from mathematical information

**Solve problems within mathematics and in other contexts**

- interpret results in the context of the given problem
- evaluate methods used and results obtained