



# CEC Key Stage 2/Y7 Learning Journey: Numeracy

## Cycle 2

- Number x 2
- Geometry
- Data Handling
- Algebra

## Cycle 3

- Geometry x3
- Number
- Ratio, proportion and rates of change
- Data Handling x2
- Algebra

### Courses

GCSE Mathematics is an entry requirement for a majority of Post-16 courses

### Careers

Agriculture, Education, Engineering, Retail, Construction, Finance, Medicine, Research

### Skills

Problem solving, analyzing data, communication, logical thinking and attention to detail

### Real World

Asking/answering questions about your world and making decisions based on evidence

## Cycle 1

- Number x 2
- Geometry
- Data Handling
- Algebra
- Ratio & Proportion

Year

7

## Summer Term

- Geometry - properties of shapes
- Problem solving
- Statistics

## Spring Term

- Decimals
- Percentages
- Algebra
- Measure (imperial and metric measures)
- Measure (perimeter, area and volume)
- Ratio and proportion

## Spring Term

- Multiplication and division
- Fractions
- Decimals and percentages

## Summer Term

- Decimals
- Geometry (shape)
- Geometry (position and direction)
- Measure - converting units
- Measure - volume and capacity

Year

6

## Autumn Term

- Place value within 10,000,000
- Four operations
- Fractions
- Geometry (position and direction)

## Autumn Term

- Place value within 100,000
- Place value within 1,000,000
- Addition and subtraction
- Graphs and tables
- Multiplication and division
- Measure - area and perimeter

Year

5

## Summer Term

- Decimals
- Measurement - money
- Measurement - time
- Statistics
- Geometry - angles and 2D shapes
- Geometry - position and direction

## Spring Term

- Multiplication and Division - area
- Fractions
- Decimals

## Spring Term

- Multiplication and Division
- Measurement - money
- Statistics
- Measurement - length
- Fractions

## Summer Term

- Fractions
- Measurement - time
- Geometry - angles and properties of shapes
- Measurement - mass
- Measurement - capacity

Year

4

## Autumn Term

- Number and Place Value (4 digit numbers)
- Addition and Subtraction
- Measurement - perimeter
- Multiplication and Division

## Autumn Term

- Number and Place Value (3 digit numbers)
- Addition and Subtraction
- Multiplication and Division

Year

3

## Cycle Assessment points

- Autumn Term Assessments (November)
- Spring Term Assessments (March)
- Summer Term Assessments (June)



# CEC EYFS/Key Stage 1 Learning Journey: Numeracy

Learning journey to continue in KS2

## Spring Term

- Multiplication and Division
- Statistics
- Measurement - length and height
- Geometry - shape
- Fractions

## Summer Term

- Geometry - position and direction
- Addition and Subtraction - problem solving and efficient methods
- Measurement – time
- Measurement - weight, volume

## Autumn Term

- Number and Place Value
- Addition and Subtraction
- Measurement – money
- Multiplication and Division

Year

2

## Summer Term

- Multiplication
- Division
- Halves and quarters
- Position and Direction
- Numbers to 100
- Time
- Money

## Spring Term

- Addition within 20
- Subtraction within 20
- Numbers to 50
- Introducing length and height
- Introducing weight and volume

## Spring Term

### Composition

Understanding that one number can be composed from two or more smaller numbers

### Pattern

Looking for and finding patterns helps children notice and understand mathematical relationships

## Summer Term

### Cardinality and Counting

Understanding that the cardinal value of a number refers to the quantity, or 'howmany' of things it represents

### Measures

Comparing different aspects such as length, weight and volume, as a preliminary to using units to compare later.

## Autumn Term

### Cardinality and Counting

Understanding that the cardinal value of a number refers to the quantity, or 'howmany' of things it represents

### Comparison

Understanding that comparing numbers involves knowing which numbers are worth more or less than each other

Year

R

## Autumn Term

Year

1

- Numbers to 10
- Part-whole within 10
- Addition and subtraction within 10
- 2D and 3D Shapes
- Numbers to 20

## Summer Term

- Odd and even
- Counting back from 10
- Number bonds within 10.
- Review
- Shape, Space and Measure

## Spring Term

- Composition of numbers 1 to 5
- Partitioning
- Addition and subtraction within 5.
- Number bonds to 5
- Numbers within 10.
- Adding one
- Subtracting one.
- Doubling and Halving

## Spring Term

- Compare amounts (Language lots, more etc.)
- Develop counting like behaviour
- Play with shape and space
- Number songs

## Summer Term

- Count in everyday contexts
- Notice Patterns
- React to changes in amount in a group of 3 items
- Number songs

## Autumn Term

- Combine objects
- Number songs
- Puzzles.

Year

N

## Autumn Term

Year

P

- Numbers to 5
- One-to-one correspondence
- Cardinality
- Stable order
- Subitising
- Conservation of number

## Cycle Assessment points

- Autumn Term Assessments (November)
- Spring Term Assessments (March)
- Summer Term Assessments (June)