

What I need to know: Y3 Maths



*We aim to be the school of choice for our community.
Through living our Christian values, everyone at WCEJS has the opportunity to flourish.
We nurture the curiosity to learn, the courage to lead and the compassion to care.*

Building solid foundations (Matthew 7: 24-27)

Name: _____

Class: _____

In Y3 you will learn more about; number and place value; the basic operations of addition, subtraction, multiplication and division; fractions and decimals; measurement; shape; statistics.

Skills I may use when learning maths	
Remember: name, identify, describe	Analyse: investigate, infer, select, clarify
Understand: predict, recall, interpret	Create: plan, design, construct
Apply: use, show, relate, demonstrate	Evaluate: compare, assess, judge

1. What I will know about Number and Place Value	Start	End
Count from 0 in multiples of 4 and 8	<input type="radio"/>	<input type="radio"/>
Count from 0 in multiples of 50 and 100	<input type="radio"/>	<input type="radio"/>
Find 10 or 100 more or less than a given number	<input type="radio"/>	<input type="radio"/>
Recognise the place value of each digit in a three-digit number (HTO)	<input type="radio"/>	<input type="radio"/>
Compare and order numbers up to 1000	<input type="radio"/>	<input type="radio"/>
Identify, represent and estimate numbers using different representations	<input type="radio"/>	<input type="radio"/>
Read and write numbers up to 1000 in numerals and in words	<input type="radio"/>	<input type="radio"/>
Solve number problems and practical problems involving number and place value	<input type="radio"/>	<input type="radio"/>

Vocabulary I need to know...
How well do you know the following words? 1. I have heard the word, but I don't know what it means 2. I understand what the word means 3. I can explain what the word means and give other examples
decimal place, decimal point, place value, ones, tens, hundreds, thousands, tenths, numeral, near number
Resources I can use to help me
Place value flip chart, place value slide card, Deines maths set (base 10), abacus, beads

2. What I will know about addition and subtraction	Start	End
Add and subtract numbers using concrete objects, pictorial representations, and mentally,	<input type="radio"/>	<input type="radio"/>
Add numbers with up to three digits, using formal written methods of columnar addition	<input type="radio"/>	<input type="radio"/>
Subtract numbers with up to three digits, using formal written methods of columnar subtraction	<input type="radio"/>	<input type="radio"/>
Estimate the answer to a calculation	<input type="radio"/>	<input type="radio"/>
Use inverse operations to check answers	<input type="radio"/>	<input type="radio"/>
Solve problems that involve addition and subtraction	<input type="radio"/>	<input type="radio"/>
3. What I will know about multiplication and division	Start	End
Recall and use multiplication and division facts for the 3 x table, 4 x table and 8 x table	<input type="radio"/>	<input type="radio"/>
Solve multiplication number sentences using known tables, including TO x O using mental and progressing to formal written methods	<input type="radio"/>	<input type="radio"/>
Solve division number sentences using known tables that I know, including TO x O using mental and progressing to formal written methods	<input type="radio"/>	<input type="radio"/>
Solve problems that involve multiplication and division	<input type="radio"/>	<input type="radio"/>
Vocabulary I need to know...		
factor, inverse, commutative, multiples, multiplier, divisor, dividend, product		
Resources I can use to help me		
Multi-link, Abacus, times table grids, 100 grid, counters		

4. What I will know about fractions and decimals	Start	End
Count up and down in tenths	<input type="radio"/>	<input type="radio"/>
Recognise that tenths come from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10	<input type="radio"/>	<input type="radio"/>
Recognise, find and write fractions of a set of objects	<input type="radio"/>	<input type="radio"/>
Recognise and use fractions as numbers: (unit fractions & non-unit fractions with small denominators)	<input type="radio"/>	<input type="radio"/>
Recognise and show, using diagrams, equivalent fractions with small denominators	<input type="radio"/>	<input type="radio"/>
Add and subtract fractions with the same denominator within one	<input type="radio"/>	<input type="radio"/>
Compare and order unit fractions, and fractions with the same denominators	<input type="radio"/>	<input type="radio"/>
Solve problems that involve fractions	<input type="radio"/>	<input type="radio"/>
Vocabulary I need to know...		
Fraction, decimal, decimal point, numerator, denominator, mixed fraction, simplify, compare, order, equivalent, convert, proper fraction, improper fraction, tenths		
Resources I can use to help me		
Fraction wall, squared paper, multilink		

5. What I will know about measurement	Start	End
Measure and compare: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)	<input type="radio"/>	<input type="radio"/>
Solve problems (+ and -): lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)	<input type="radio"/>	<input type="radio"/>
Measure the perimeter of simple 2-D shapes	<input type="radio"/>	<input type="radio"/>
Add and subtract amounts of money to give change, using both £ and p in practical contexts	<input type="radio"/>	<input type="radio"/>
Tell and write the time from an analogue clock	<input type="radio"/>	<input type="radio"/>
Tell and write the time using Roman numerals from I to XII	<input type="radio"/>	<input type="radio"/>
Tell and write the time using 12-hour and 24-hour clock	<input type="radio"/>	<input type="radio"/>
Estimate and read time with increasing accuracy to the nearest minute	<input type="radio"/>	<input type="radio"/>
Record and compare time in terms of seconds, minutes and hours	<input type="radio"/>	<input type="radio"/>
Use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight	<input type="radio"/>	<input type="radio"/>
Know the number of seconds in a minute and the number of days in each month, year and leap year	<input type="radio"/>	<input type="radio"/>
Compare durations of events	<input type="radio"/>	<input type="radio"/>
Vocabulary I need to know...		
Convert, milligrams, grams, kilograms, mile, millimetre, centimetre, metre, kilometre, seconds, minutes, hours, days, weeks, fortnight, months, years, decades, century, area, volume, angle, degrees, o'clock, a.m./p.m., morning, afternoon, noon, midnight		
Resources I can use to help me		
Rulers, measuring tapes, measuring cylinders, scales, clocks, calendars		
6. What I will know about shape	Start	End
Draw 2-D shapes and make 3-D shapes using modelling materials	<input type="radio"/>	<input type="radio"/>
Recognise 3-D shapes in different orientations and describe them	<input type="radio"/>	<input type="radio"/>
Recognise angles as a property of shape or a description of a turn	<input type="radio"/>	<input type="radio"/>
Identify right angles	<input type="radio"/>	<input type="radio"/>
Know two right angles make a half-turn, three make three quarters of a turn and four a complete turn	<input type="radio"/>	<input type="radio"/>
Identify whether angles are greater than or less than a right angle	<input type="radio"/>	<input type="radio"/>
Identify horizontal and vertical lines	<input type="radio"/>	<input type="radio"/>
Identify pairs of perpendicular and parallel lines	<input type="radio"/>	<input type="radio"/>
Vocabulary I need to know...		
Perpendicular, parallel, 2D, 3D, angle, turn, properties, right angle, horizontal, vertical		
Resources I can use to help me		
2D shapes, 3D shapes, right angle checker		

Respect

Responsibility

Reflection

Resilience

7. What I will know about statistics	Start	End
Interpret data using bar charts, pictograms and tables	<input type="radio"/>	<input type="radio"/>
Present data using bar charts, pictograms and tables	<input type="radio"/>	<input type="radio"/>
Solve one-step questions using information presented in scaled bar charts and pictograms and tables	<input type="radio"/>	<input type="radio"/>
Solve two-step questions using information presented in scaled bar charts and pictograms and tables	<input type="radio"/>	<input type="radio"/>
Vocabulary I need to know...		
Discrete, continuous, data, bar chart, graph, table, pictogram, key, symbol, x axis, y axis, scale		
Resources I can use to help me		
Rulers, multi-link		