

Year 3 Objectives: Number

NUMBER AND PLACE VALUE

Compare and order numbers up to 1000

Know which of two 3-digit numbers is the greater and smaller

Order a set of 3-digit numbers from smallest to largest

Order a set of 3-digit numbers from largest to smallest

Count in multiples of: 2, 3, 4, 5, 8, 10, 50 and 100 from 0

Count on and back in 100s from 0 to 1000

Count on and back in 10s from 0 to 100

Count on and back in 10s from any given number between 0 and 1000

Count on and back in 50s from 0 to 1000

Count on and back in 3s from 0 to 99

Count on and back in 4s from 0 to 100

Count on and back in 5s from 0 to 100

Count on and back in 8s from 0 to 96

NUMBER AND PLACE VALUE

Read and write numbers : to at least a 1000 in numerals and words

Read and write all numbers to 100

Read and write all numbers in 100s from 100 to 1000

Read and write all numbers in 50s from 50 to 1000

Read and write all numbers in 10s from 10 to 1000

Read and write all numbers to the value of 1000

Recognise place value of each digit in a 3-digit number

Know and use terms: units; tens and hundreds correctly

Partition any number up to 999 showing the value of each digit

Year 3 Objectives : Number 2

NUMBER AND PLACE VALUE

Know 10 or 100 more or less than a given number

Know 10 more than a given number between 0 and 1000

Know 10 less than a given number between 0 and 1000

Know 100 more than a given number between 0 and 1000

Know 100 less than a given number between 0 and 1000

ADDITION AND SUBTRACTION

Add and subtract numbers with 3 digits, including using column addition and subtraction

Add 2 numbers with 3-digits together using column addition without exchange between units and tens

Add 2 numbers with 3-digits together using column addition, where the units and tens when added make more than 10.

Add 3 numbers with 3-digits using column addition where the units or tens make more than 10

Subtract a 3-digit number from another using column subtraction which requires no exchange between the units, tens or hundreds

Subtract a 3-digit number from another using column subtraction which requires exchange between the units, tens or hundreds

Year 3 Objectives : Number 3

ADDITION AND SUBTRACTION

Metal addition and subtraction: pairs of one and 2-digit numbers; 3-digit numbers and ones; 3-digit numbers and tens; 3-digit numbers and hundreds

Add rapidly any 2 single-digit numbers

Subtract rapidly any 2 single-digit number

Add together mentally any single-digit and any 2-digit number

Subtract any single-digit number from a 2-digit number

Add together mentally any single-digit and any 3-digit number

Subtract any single-digit number from a 3-digit number

Add together mentally any 10s number and any 3-digit number

Subtract any 10s number from a 3-digit number

Add together mentally any 100s number and any 3-digit number

Subtract any 100s number from a 3-digit number

ADDITION AND SUBTRACTION

Solve word problems, including missing numbers, using number facts, place value, and more complex addition and subtraction

Solve simple word problems involving missing numbers

Solve simple word problems involving place value

Solve simple word problems involving complex addition to 1000

Solve simple word problems involving complex subtraction to 1000

Year 3 Objectives : Number 4

MULTIPLICATION AND DIVISION	
Recall and use multiplication and division facts for: 2, 3, 4, 5, 8 and 10	
Recite all multiplication facts for the x2 table	
Recite all multiplication facts for the x5 table	
Recite all multiplication facts for the x10 table	
Recite all multiplication facts for the x3 table	
Recite all multiplication facts for the x4 table	
Recite all multiplication facts for the x8 table	
Recall all number facts for the 2, 3, 4, 5, 8 and 10x table out of sequence	
Know the inverse of all table facts involving 2, 3, 4, 5, 8 and 10x table, eg, how many 4s in 24?	

MULTIPLICATION AND DIVISION	
Write and calculate using multiplication and division within multiplication tables; 2-digit x one-digit; using mental and written methods	
Multiply a 10s number by a single-digit number mentally, using 2, 3, 4, 5, 8 and 10x	
Multiply a 2-digit number by a single-digit number using 2, 3, 4, 5, 8 and 10x	
Divide 2, 3, 4, 5, 8 and 10 into any 10s number (no remainder)	
Divide 2, 3, 4, 5, 8 and 10 into any 2-digit number (no remainder)	
Solve word problems involving 4 operations, including missing number problems	
Solve word problems involving addition with numbers up to 1000	
Solve word problems involving subtraction with numbers up to 1000	
Solve word problems involving multiplication with numbers up to 100	
Solve word problems involving division with numbers up to 100	

Year 3 Objectives : Number 5

FRACTIONS

Identify, name and use fractions up to $\frac{1}{12}$

Know what fractional values are: eg $\frac{1}{4}$ is one part of four, etc.

Name all fraction from $\frac{1}{2}$ to $\frac{1}{12}$

Find $\frac{1}{2}, \frac{1}{4}, \frac{1}{6}$ of a given 2-digit number

Compare and order unit fraction and fractions with same denominations

Order any fraction between $\frac{1}{2}$ to $\frac{1}{12}$

Order fraction where the denominator is the same (between $\frac{1}{2}$ to $\frac{1}{12^{\text{th}}}$)

Recognise equivalent fractions to 1 and pairs of fraction that add up to 1

Know that $\frac{1}{2}$ is the same as $\frac{2}{4}$, etc.

Find pairs of fractions that add to 1 whole, eg, $\frac{1}{3}$ and $\frac{2}{3}$

FRACTIONS

Add and subtract fractions with same denominator within one whole

Add 2 fractions with the same denominator that add up to no more than 1 whole.

Subtract one fraction from another of the same denominator

Count up and down in tenths

Count up in tenths

Count down in tenths

Year 3 Objectives : Geometry and Measures

PROPERTIES AND SHAPE	
Make 2D and 3D shapes; in different orientations and describe with increasing accuracy	
Name a range of 2D and 3D shapes set out in a range of ways	
Recognise angles as a property of shape and as an amount of turning	
Know that the opening between two lines joined at a point is known as an angle and can be measured in degrees	
Know that the measurement in degrees is greater when the opening is wider	
Identify right angles; know that 2 and 4 right angles make half and a full turn respectively	
Know a right angle as having 90 degrees which is written as 90°	
Know that two right angles effectively make a straight line and is equivalent to 180°	
Know that 2 right angles is half a turn	
Know that 4 right angles is a full turn	

PROPERTIES AND SHAPE	
Identify whether angles are greater or less than a right angle	
Identify angles that are smaller than a right angle	
Identify angles that are larger than a right angle	
Know that an angle smaller than a right angle is known as an acute angle	
Know that an angle larger than a right angle is known as an obtuse angle	
Identify horizontal, vertical, perpendicular, parallel, and curved lines	
Know the terms: horizontal and vertical	
Recognise horizontal and vertical in everyday situations, eg, telephone pole being vertical, the sea being horizontal	
Know the relationship between horizontal and horizon	
Know the terms perpendicular and parallel	
Draw lines that are perpendicular and parallel to a given line	

Year 3 Objectives : Geometry and Measures: 2

PROPERTIES AND SHAPE

Use compass to draw circles and arcs with given radius

Use a compass appropriately

Draw circles with a compass and know the term radius

Draw circles that have a radius of 5cm; 10cm; 20cm; etc.

MEASURES

Recognise and use abbreviations of metric units of measure

Know that metres, centimetres and millimetres are written as : m, cm.; and mm. respectively

Know that grams and Kilograms are written a: g. and Kg respectively

Know that litres and millilitres and written as: l, ml, respectively

MEASURES

Measure, compare, add and subtract: lengths (m/cm/mm); masses (kg, g); volume and capacity (l/ ml); and time (hr/mins/sec)

Practise using appropriate tools to measure distances and weight

Recognise 1m as having 100cm

Know that 50cm is $\frac{1}{2}$ a metre

Measure to the nearest metre a distance of up to 10m

Measure accurately a distance of up to 30cm using a ruler

Measure a distance of up to 5m using a tape measure giving the answer in m and cm

Recognise 1Kg as having 1000g

Know that 500g is $\frac{1}{2}$ a Kg

Measure to the nearest Kg a weight of up to 10Kg on a weighing machine

Measure accurately a weight of up to 500g on a weighing scale

Measure a weight of up to 5Kg using a weighing machine giving the answer in Kg and g

Know that 60 minutes make 1 hour; and that 60 seconds make 1 minute

Year 3 Objectives : Geometry and Measures: 2

MEASURES	
Measure perimeter of simple 2D shapes	
Know the term perimeter	
Know that the perimeter is the distance around the four sides of a rectangle	
Know that the perimeter is the distance around the outside of any shape	
Measure accurately each side of a 2D shape and add up all the sides to find the perimeter	
Tell and write the time from an analogue clock, using Roman numerals 1 to X11, and 12 hour & 24 hour digital clocks	
Recognise all Roman numerals from 1 to 12 and their associated place on a clock	
Can tell the time on an analogue clock and write down its equivalent, eg, ten past two can be written as 2.10	
Understand the 24 hour system, eg, 2pm is 1400 hours	
Tell the time in digital format and write it down	

MEASURES	
Estimate and read time to the nearest minute	
Revise reading the time in five minute intervals	
Read the time to one minute intervals	
Estimate the time to the nearest five minutes, eg, it is almost ten past three	
Compare time in terms of seconds, minutes, hours and o'clock	
Know that 60 seconds is one minute and that 60 minutes is one hour	
Know that quarter past is 15 minutes past; and that half past is 30 minutes past	
Know that 90 seconds is a minute and a half	
Use terms such as: am, pm, morning, afternoon, noon and midnight	
Know that am represents time from midnight to noon	
Know that pm represents time from noon to midnight	

Year 3 Objectives : Geometry and Measures: 3

MEASURES

Know the number of seconds in a minute and the number of days in each month, year and leap year

Know that the number of days per month varies between 28 to 31

Know that the number of day in a year varies between 365 and 366 and know the term leap year

Know the rhyme associated with days of the month

Compare duration of events, eg, calculate time taken up by particular events or tasks

Measure in minutes and seconds any duration using a stop watch or hand held clock

Know that certain events last a given time: eg; lunch hour; football match = 90 minutes

Add and subtract amounts of money to give change, using £ and p

Add any two amounts of money using notes and coins

Sort out an amount of money by organising it into sets of the same coins and then making up sets of pounds, etc.

From a given amount give change from £1, £5, £10

DATA

Read, interpret and present data using pictograms and bar charts with scales

Read information set out in a bar chart or pictogram

Read information from a bar chart that has a scale on the vertical axes

Present information in a pictogram or bar chart

Present information on a bar chart where there is a scale on the vertical axes

Solve problems using information presented in pictograms, bar charts and tables

Solve problems involving pictograms, bar charts and tables