

Number and Place Value

Read and write numbers to 10 000 in words and numerals

Count in multiples of 6, 7, 9, 25 and 1000 from 0

Count backwards through zero to include negative numbers

Say 10/100/1000 more/less than any number to 10 000

Recognise the value of each digit in a four-digit number (3245 = 3000, 200, 40 and 5 or 3 thousands, 2 hundreds, 4 tens and 5 ones)

Compare and order numbers beyond 1000

Round any number to the nearest 10, 100 or 1000

Read Roman numerals up to 100 (I to C)

Number – mental addition and subtraction

Mentally add and subtract:

- a 3-digit and a 1-digit number
- a 3-digit number and multiple of ten
- a 3-digit number and multiple of hundred (consolidation from year 3)

Number – mental multiplication and division

Know 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 times tables (multiplication **and** division facts)

Number – fractions and decimals

Recognise and write decimal equivalents for any number of tenths or hundredths (e.g. $3/10 = 0.3$; $3/100 = 0.03$; $23/100 = 0.23$)

Recognise and write decimal equivalents for $\frac{1}{2}$ (0.5), $\frac{1}{4}$ (0.25), $\frac{3}{4}$ (0.75)

Round decimals with one decimal place to the nearest whole number (eg. $1.6 = 2$; $1.4 = 1$)

Compare and order numbers with the **same number** of decimal places **up to 2dp** e.g. 1.13, 1.31, 1.11 -> 1.11, 1.13)

Measurement

Know and use conversions: 1000g=1kg; 1000ml=1l; 1000m=1km 100cm=1m,

Read, write and convert time between analogue and digital clocks

Convert time from: hours to minutes; minutes to seconds; years to months; weeks to days

Resources/Suggested activities:

Use coins to help with place value 10p = tens, 1p = units. So $3 \times 10p$ and $4 \times 1p = 34$

Use playing cards to practise times tables (Ace = 1, Jack = 11, Queen = 12). Turn over two cards and multiply together.

Use playing cards or dice to practise mental addition. Turn over 3 or 4 cards and add them quickly together; roll two dice and add quickly as you go.

Use a clock, watch or phone showing analogue and digital time

Make your own clock using card and butterfly clips (use Roman numerals in addition to standard numerals)

Find clocks and buildings with Roman numerals

Make cards with standard and Roman numerals – play a matching game.

Look at variety of jugs that show ml/l – make cakes/smoothies, etc. to practise measuring

Look at scales that show kg/g – make cakes to practise measuring

Go shopping – work out totals, change, if one pack costs X how much do 3 cost?

Useful maths websites

These sites have an excellent range of activities and games for most topics.

TTRockstars

<https://trockstars.com/> (Ask the class teacher if you have forgotten the login details.)

- Use the 'Jamming' mode (no timer) while building up confidence, then use 'Soundcheck' to practice against the clock. Challenge friends using the 'Multiplayer' mode.
- Please read the TTRockstars parent guide that is attached as a separate document.

Top Marks

<https://www.topmarks.co.uk/maths-games/7-11-years/ordering-and-sequencing-numbers>

Cool Maths 4 Kids – also includes lessons/explanations/brain teasers

<http://www.coolmath4kids.com/>

Maths is fun

Range of explanations and online activities

<https://www.mathsisfun.com/numbers/index.html>

Cool Maths Games

<https://www.coolmathgames.com/>