

Year 3 National Curriculum Maths objectives

Place value:

1. Count from 0 in multiples of 4, 8, 50 and 100. Find 10 or 100 more or less than a given number.
2. Recognise the place value of each digit in a three-digit number (hundreds, tens, ones).
3. Compare and order nos up to 1000. Read and write nos up to 1000 in numerals and in words.
4. Identify, represent and estimate numbers using different representations.
5. Solve number problems and practical problems involving these ideas.

Addition and Subtraction

6. Add and subtract numbers mentally, including: a 3-digit no and 1s, 10s, 100s.
7. Add and sub numbers with up to 3 digits, using formal written methods of columnar add and sub.
8. Estimate the answer to a calculation and use inverse operations to check answers.
9. Solve probs, inc missing no probs, using number facts, place value, and more complex add/sub.

Multiplication and division

10. Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.
11. Write and calc math statements for \times and \div using the tables they know, including 2-digit numbers times 1-digit numbers, using mental and formal written methods.
12. Solve probs and missing number probs, involving \times and \div , including integer scaling probs and correspondence probs in which n objects are connected to m objects.

Fractions

13. Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10.
14. Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.
15. Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.
16. Recognise and show, using diagrams, equivalent fractions with small denominators.

17. Add and sub fractions with the same denominator within one whole (e.g. $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$).

18. Compare and order unit fractions, and fractions with the same denominators.

19. Solve problems that involve all of the above.

Measure

20. Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).

21. Measure the perimeter of simple 2-D shapes.

22. Add and subtract amounts of money to give change, using both £ and p in practical contexts.

23. Tell/write the time from an analogue clock, inc Roman numerals from I to XII, and 12-hr/24-hr clocks.

24. Estimate and read time with increasing accuracy to nearest min; record/compare time in secs, mins, hrs. Use vocab such as o'clock, a.m./p.m., morning, afternoon, noon and midnight.

25. Know the no of seconds in a minute and the number of days in each month, year and leap year.

26. Compare durations of events (for exmaples to calculate the time taken by particular events or tasks).

Geometry

25. Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them.

26. Recognise that angles are a property of shape or a description of a turn.

27. Identify right angles, recognise that 2 right angles make a $\frac{1}{2}$ turn, 3 make $\frac{3}{4}$ quarters of a turn and 4 a complete turn. Identify whether angles are greater than or less than a right angle.

28. Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.

Statistics

29. Interpret and present data using bar charts, pictograms and tables.

30. Solve one-step and two-step questions such as 'How many more?' and 'How many fewer?' using information presented in scaled bar charts and pictograms and tables.