Oxford International Primary Maths

List of resources

Year 4

1: Number and Place Value

- Mini whiteboards and markers
- Place value cards
- 0–9 digit cards
- Counting stick
- Student sets of number cards (2, 3, 4, 6, 7, 0)
- Lollipop sticks with students’ names on
- Examples of decimal numbers cut out of magazines or newspapers – enough for one per pair of students
- Calculators
- 100-squares
- Place value counters
- Two dice for each pair of students
- Class set of four cards, labelled: largest number, smallest number, odd number, even number

2: Addition and Subtraction

- Plain paper and coloured pens to make poster
- Sets of 0–9 digit cards
- Class set of number cards 50, 100, 150, 200, …, 950
- Mini whiteboards and markers
- 2 dice per pair
- Coloured pencils
- 10-sided dice
- Place value counters
- Calculators
- Sets of 1–9 place value cards for each pair
- Set of large 0–9 digit cards
- Set of number cards 10, 20, 30, 40, 50, 60, 70, 80, 90, one set per pair
- Base 10 Dienes blocks

3: Multiplication

- Copied 100-squares, one per pair
- Set of 1–10 digit cards for each pair
- Mini whiteboards and markers
- 6-sided dice
- Counting stick
- Calculators
- Place value chart
- Large digit cards 1, 2, 3, 4, 5, 6, 7, 8, 9, 0, 0, 0
- Set of 0–9 place value cards
• Paper for students to record their planning

4: Division

• Counting stick
• Triangle flash cards, prepared and blank
• Mini whiteboards and markers
• Interlocking cubes
• Empty number lines
• Small cubes
• Coins
• Squared paper
• Three class sets of 1–9 digit cards
• Large sheets of flip-chart paper;
• Internet research facility or reference books on a range of animals
• Reference books on dogs
• Height measurer or measuring tapes
• Copy of a simple recipe for 4 people. Use one from a magazine or create your own.

5: Fractions

• Mini whiteboards and markers
• Tangram sets, one per pair
• Fraction wall showing halves, thirds, quarters, fifths, eighths and tenths
• Sets of fraction cards: eighths and tenths
• Circular and rectangular pieces of paper
• 1–10 digit cards
• Interlocking cubes
• Set of fraction cards for tenths and eighths, include cards for a half, a quarter and three-quarters
• A4 cards showing activities from your day
• 4 × 6 grids for students to fill in with their daily routine

6: Decimals and Fractions

• Counting stick
• Rulers marked in centimetres and millimetres
• Mini whiteboards and markers
• Calculators
• Sets of tenths, fifths and decimal fraction cards
• A decimal–fraction table on the whiteboard:
• Set of 1–9 digit cards
• Examples of local currency, examples of all the coins which make up one dollar or the equivalent in the local currency.
• Metre rules
• Matching pair cards showing fractions and decimal equivalents
• Strips of paper divided into ten sections;
• Blank 100-squares
• Interlocking cubes
• Large sheets of paper
7: Measurement, Area and Perimeter

- Mini whiteboards and markers
- Large sheets of paper and pens
- Rulers
- Measuring tapes
- Metre rules
- Trundle wheels
- Paperclips
- Counting stick
- Collection of small, light items suitable for weighing
- Balances or weighing scales
- Small containers
- Sand
- Water
- Set of electronic weighing scales for each pair or group
- Small items (less than 1 kg) for weighing, for example: books, jars, tins
- Class set of weight cards: 0.1 kg, 0.2 kg, 0.3 kg, 0.4 kg, 0.5 kg, 0.6 kg, 0.7 kg, 0.8 kg, 0.9 kg, 1.4 kg, 1.2 kg, ¾ kg
- Metric masses
- 5 litre unmarked containers;
- 1 litre containers
- Sticky notes
- Wide-necked measuring cylinders
- String or wire
- Stones
- Unmarked containers – approximately 10 ml, 50 ml, 200 ml, 500 ml, 800 ml
- 2-litre containers of red water and yellow water (use food colouring)
- 100 ml measuring cylinders
- Large test tubes (boiling tubes) and test-tube racks
- Newton meters (force meters)
- Selection of student pencil cases
- cm-squared paper
- Metre sticks or tape measures
- Class set of 1–9 digit cards

8: Time

- Set of 10 small blank cards for each pair
- Mini whiteboards and markers
- Analogue and digital clocks
- Calculators
- Calendars
- Class timetable
- School bus timetable (or other bus timetable)
- Sets of cards showing months of the year
- Blank calendars for a given month
- Stopwatches
- Set of cards marked 20 minutes, 25 minutes, 30 minutes, 35 minutes, 40 minutes, 45 minutes, 50 minutes, 55 minutes
- Commercial TV guides
- Poster paper

9: Shape and Geometry
• Examples of art by M. C. Escher
• Pinboard and elastic bands
• Range of 2D shapes
• Equilateral triangle shapes, enough for six per student
• Mini whiteboards and markers
• Large cards labelled ‘equilateral triangle’, ‘isosceles triangle’ and ‘scalene triangle’ (or showing images of each type of triangle)
• Large sheets of paper (A3) to draw Venn diagrams
• Straws (for building 3D shapes) and joiners (or adhesive putty such as Blu-Tack)
• Sets of 3D shapes (one set for each small group): sphere, cube, cuboid, cylinder, hexagonal prism, cone, square-based pyramid, triangular-based pyramid, triangular prism, including a few different sizes of some shapes
• Access to the internet for research
• Squared paper
• Small mirrors
• Selection of leaves and flowers
• Geometric construction shapes (such as Polydron)
• Simple cube-shaped or cuboid-shaped packets that can be unfolded to show a net
• Examples of cylindrical packaging

10: Position and Movement
• Individual angle measurers
• Compasses
• Geo-strips and connectors – each student to have a hinged pair
• Paper
• Scissors
• Adhesive stick or glue
• Dice
• Mini whiteboards and markers
• Large space such as a school hall
• Squared paper
• Simple plan of a shop floor
• Large square pieces of paper
• Chairs
• 8-sided dice
• Pictures by Wassily Kandinsky (see the Internet for examples)
• Large sheets of paper

11: Handling Data
• Copies of class list
• Pieces of paper about 5 cm square, enough for one per student
• Pieces of A4 paper labelled January, February, March, April, May, June, July, August, September, October, November, December
• Large sheets of squared paper
• Mini whiteboards and markers
• Copies of the large bar charts from the Discover lesson
• Graph paper
• Examples of graphs and charts from newspapers with partially concealed scales which could give biased information
• Blank ‘thermometer’ scale from −20 °C to 120 °C on the board
• 8-sided dice
• Class set of 1–100 number cards
- Collection of bar charts, pictograms and other displays of data from magazines and media, collected by students earlier