## **1st Class *Maths and Me* Equipment Overview**

|  |  |
| --- | --- |
| **Unit 1:**  **Numbers to 30** | Jar or can   1. 1c coins/marbles or any small object that will make noise when dropped into a jar or can 2. An object to hide (e.g. a soft toy dog or cat) 3. Counting aids: counters, 1c coins, interlocking cubes 4. Scissors 5. 1–6 spinners 6. Blank number paths with 10 steps 7. Ten frames 8. Branching bond templates 9. Number shapes 10. Links 11. Place value arrow cards Base ten blocks 12. Number lines to 30   Coins (1c, 2c and 5c)  Cubes  Beads  Lollipop sticks  Sorting circles  PCMs 3, 4, 5 |
| **Unit 2:**  **Addition and Subtraction 1** | 1. Classroom resources such as interlocking cubes, counters, ten frames, number shapes, base ten blocks, links, number rods, rekenreks, coins (including 1c coins), dominoes and dice 2. Colouring pencils in two colours 3. Jar or can 4. Counters in two colours   Sorting circles  Playing cards  Matchsticks  1–6 spinners  0–9 spinners  Place value arrow cards  Number shapes, coins, matchsticks, number lines, shapes   1. PCMs 4, 8, 10, 11 |
| **Unit 3:**  **Fractions** | 1. Classroom resources such as counters, beads, marbles 2. 1–6 spinners 3. Book: *The Doorbell Rang* by Pat Hutchins 4. Teddies and dolls (to make up numbers in groups) 5. Odds and ends of wool 6. Glue sticks 7. Scissors 8. Straws 9. 2-D shapes/2-D shapes for tracing 10. Pegboards 11. Geoboards 12. Paper 13. Classroom resources such as counters, interlocking cubes, bears, branching bond, number lines, ten frames, cubes, number shapes and rekenreks 14. 0–9 spinners 15. Ten frames 16. 1c, 2c, 5c and 10c coins 17. Counting collections of 1 to 20 items 18. PCMs 1, 8, 12, 14, 15 |
| **Unit 4:**  **Data 1** | 1. Lollipop sticks 2. Jar or can 3. 1c, 2c and 5c coins 4. Photo of a compost bottle 5. Photo of a bug hotel 6. Paper with child’s drawing and/or writing on both sides 7. Bags 8. Interlocking cubes or counters 9. PCMs 16, 17, 18 |
| **Unit 5:  Time 1** | 1. A variety of timers, e.g. digital stopwatch (on a digital watch, mobile phone, tablet, laptop, or internet), analogue watch/clock with a second hand, sand timers 2. A variety of calendar types 3. Teaching clocks, (preferably geared, i.e. hour hand moves when minute hand moves) or online clocks Unit 5 Maths Language Cards 4. PCMs 20, 21, 22, 24, 25 |
| **Unit 6:  Shapes** | 1. Sets of 2-D and 3-D shapes (at least one of each type): circle, semi-circle, triangle, square, rectangle, oval, cube, cuboid, sphere, cylinder, cone 3-D shapes in different sizes and colours: cube, cuboid, sphere, cylinder, cone 2. Real-life 3-D shapes (e.g. balls, beads, packaging) 3. Sorting circles or containers for sorting Opaque bag 4. 1–6 spinners 0–9 spinners Counters 5. PCMs 26, 27, 28 |
| **Unit 7:**  **Numbers to 100** | 1. Classroom resources for counting, such as jigsaw puzzle pieces, marbles, buttons, elastic bands, paper drinking straws, lollipop sticks, metal washers, craft supplies (e.g. pipe cleaners, small pompoms, beads, art sequins, wiggly eyes), pieces of pasta, paper clips and paper fasteners Counting aids such as 100 Squares and Number lines 2. Any available physical resources for representing numbers up to 100, including: ten frames and counters, lollipop/bundling sticks, interlocking cubes, links, number shapes, number rods, rekenreks, base ten blocks 3. Empty container per group 4. Place value arrow cards 5. Open number lines 6. Dice 7. 0–9 spinners 8. Selection of toy catalogues, brochures and flyers Children’s own books 9. Various other print materials, such as newspapers and magazines 10. PCM 32 |
| **Unit 8:**  **Addition and Subtraction 2** | 1. Classroom resources such as cubes, rekenreks and number shapes 2. Number lines 3. Ten frames 4. Counters Base ten blocks and other base ten resources 5. Stacked number paths to 20 6. Number lines to 20 7. Interlocking cubes 8. 100 Squares Place value arrow cards 9. 0–9 spinners 10. 1c, 2c, 5c and 10c coins 11. PCMs 35, 36 |
| **Unit 9:**  **Location and Transformation** | 1. Small-world figures (e.g. farm animals, cars, houses) 2. Other figures or blocks to represent houses, etc. 3. Poster printables of the *Maths and Me* characters  Cardinal directions signs 4. 2-D shapes Toothpicks 5. Straws 6. Pattern blocks 7. Peg boards 8. Small safety mirrors Pentominoes 9. Coins 10. Playing cards 11. Pattern tiles 12. Book: *Tom Crean: The Brave Explorer* by John and Fatti Burke 13. PCM 37, 38 |
| **Unit 10:**  **Measuring 1** | 1. Children’s own pencils and lunch boxes 2. Objects that can be used to measure longer objects, such as bamboo gardening canes, long poster tubes, long toner boxes from a photocopier, PE equipment (e.g. hurdles, Unihoc sticks, obstacle ladders), large sheets of paper cut into strips, mop/brush handles 3. Metre rulers, metre-long measuring tapes, other items that are exactly 1 metre in length 4. Multiple identical objects from the classroom (e.g. twisty colouring pencils, lollipop sticks, interlocking cubes, links, multiples of the same type of book or copy) 5. PCM 44 |
| **Unit 11:**  **Patterns** | 1. Any classroom equipment which can be used to create patterns such as interlocking cubes, shapes, counters and beads, 100 Squares and number tiles Counting aids such as number lines, base ten blocks, number pieces, interlocking cubes, dice, dominoes, playing cards, 1–6 spinners or 0–9 spinners, abacus, 2-D and 3-D shapes in a variety of colours, sizes and thicknesses, pattern tiles and pegboards Music 2. 1c, 2c, and 5c coins 3. Lengths of wool, buttons, pom poms, stamps 4. PCM 35 |
| **Unit 12:**  **Addition and Subtraction 3** | 1. Countable resources such as interlocking cubes, place value grids, counters and base ten blocks 2. Counting aids, such as ten frames, 100 squares, number lines, including open number lines 3. Place value arrow cards 0–9 spinners Transparent bag/container 4. Clothesline and pegs 5. Two dice PCMs 5, 35, 46 |
| **Unit 13:**  **Measuring 2** | 1. School bags 2. Clothes hanger balance (i.e. clothes hanger and two identical bags with handles), per group 3. Bucket/pan balances 4. Various objects to weigh and to use as non-standard units 5. Items that are 1 kg in weight, (e.g. sugar, flour, pasta) Multiple identical maths books and copies 6. A selection of different books 7. Water tray/tough tray 8. Various types of containers, of different sizes and capacities, including containers of different shapes but the same capacity, (e.g. plastic cups, bottles, bowls, jugs, small measuring cups, 1-2L containers) 9. Materials to pour into containers, (e.g. water, sand, rice, cereal hoops) 10. Multiple cups of uniform size and shape 11. Scoops 12. Funnels 13. Two toy cars and ramp per group 14. Unit 13 Maths Language Cards 15. PCMs 48, 49 |
| **Unit 14:**   **Time 2** | 1. Teaching clocks, preferably geared (i.e. hour hand moves when minute hand moves) 2. Online clocks 3. PCM 24 |
| **Unit 15:**  **Money** | Counting aids such as number paths, 100 squares, rekenreks, counters   1. Play money (coins and notes) 2. A pot to hold coins (for each pair) 3. Purses (children could bring in their own) or small bags/pots A can/jar (must make noise when coins are dropped into it) 4. 9-sided dice Materials for class market stalls: Items for sale could include the plants the children have grown from seed during geography/science (The Farmer’s Market); small items from the classroom, such as pencils, erasers, toy farm animals and marbles (The School Shop); A ‘pretend’ preloved items sale; with the help of parents a real 5. ‘preloved’ sale, perhaps using lost property items (The Preloved Sale) Small pieces of card/paper for price tags (shopping) 6. Unit 15 Maths Language Cards (greater than, less than, equals) |
| **Unit 16:  Data 2** | 1. Counting collections such as coins, bears, counters, beads, shapes, pasta shapes, buttons 2. Interlocking cubes (in three different colours) 3. Large (A3) card or paper for each pair 4. Glue sticks 5. Sorting circles 6. PCMs 56, 57 |
| **Unit 17:**  **Measuring 3** | 1. Children’s own lunchboxes 2. Any available resources of various sizes, e.g. paper plates, library books, textbooks, copies, pieces of paper/cardboard, lids (jars, bottles, boxes, tubs, etc), boxes, 2-D shapes, pattern blocks, tangram pieces, envelopes 3. Any available resources of uniform shape and sizes, such as playing cards, index cards, building blocks (e.g. building bricks), wooden blocks, copies, books, dominoes, sticky notes, pages, sheets of paper   Sheets of A4 or A3 paper  Squares (e.g. square tiles\*, squares from pattern blocks, tangram pieces, interlocking cubes, base ten ones (cubes) and hundreds (flats), square sticky notes)  2-D shapes (e.g. dominoes, jar lids, paper of various shapes and sizes)  Geoboard/geoboard app   1. Playing cards/index cards 2. Printable: Footprints in the Sand   PCM 49, 59, 60, 61   1. *\* Square foam/plastic tiles from an educational supplier are ideal for measuring area in square units.* |
| **Unit 18:**  **Number Sentences** | 1. Classroom manipulatives, (e.g. counters, bears (in different colours/sizes)) 2. Ten frames 3. Rekenreks 4. PCMs 62, 63, 65 |
| **Unit 19:**  **Addition and Subtraction 4** | Counting aids, such as ten frames, place value grids, bar models, open number lines and branching bonds  Groupable base ten materials: base ten blocks, counters, interlocking cubes, beads, shapes, coins and other classroom resources   1. PCMs 67, 69 |