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

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| **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. Counters 8. Ten frames 9. Branching bond templates 10. Number shapes 11. Interlocking cubes 12. Links 13. Place value arrow cards 14. Rekenreks 15. Base ten blocks 16. Number lines   Coins (1c, 2c and 5c)  Cubes  Beads  Lollipop sticks  Sorting circles  PCMs 3, 4, 5 |
| **Unit 2:**  **Addition and Subtraction 1** | Interlocking cubes, counters, ten frames, number shapes, base ten blocks, links, number rods   1. Colouring pencils in two colours 2. jar or can 3. Coins (including 1c coins) 4. Counters in two colours   Sorting circles  Playing cards  Matchsticks  1—6 spinners  0—9 spinners  Place value arrow cards   1. Classroom resources such as counters, rekenreks, coins, dominoes and dice   Number shapes, coins, matchsticks, number lines, shapes   1. PCMs 4, 8, 10, 11 |
| **Unit 3:**  **Fractions** | 1. 1—6 spinners 2. Book: *The Doorbell Rang* by Pat Hutchins 3. Classroom resources such as counters, beads, marbles 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 10. Pegboards 11. Geoboards 12. Paper 13. 2-D shapes for tracing 14. Classroom resources such as counters, interlocking cubes, bears, branching bond, number lines, ten frames, cubes, number shapes and rekenreks 15. 0—9 spinners 16. Ten frames 17. 1c, 2c, 5c and 10c coins 18. Counting collections of 1 to 20 items 19. 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 calendar types 2. Teaching clocks, preferably geared (i.e. hour hand moves when minute hand moves) 3. Analogue watch/clock with a second hand 4. Online clocks 5. Variety of timers, such as sand timer, kitchen timer, digital stopwatch and timer on smartphone 6. Circular pieces of paper 7. PCMs 20, 21, 22, 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 2. Real-life example 3-D shapes such as dice, Rubik’s cube, beads and balls 3. 3-D shapes in different sizes and colours: cube, cuboid, sphere, cylinder, cone 4. Sorting circles or containers for sorting 5. Pattern blocks (as many different 3-D shapes as possible) 6. Tangrams 7. Counters 8. 0–9 spinners 9. 1–6 spinners 10. Rulers 11. Opaque bag 12. 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 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. Counting aids such as 100 Squares and Number lines 4. Empty container per group 5. Open number lines 6. Place value arrow cards 7. Dice 8. 0–9 spinners 9. Selection of toy catalogues, brochures and flyers 10. Various other print materials, such as newspapers and magazines 11. Children’s own books 12. PCMs 5, 31 |
| **Unit 8:**  **Addition and Subtraction 2** | 1. Classroom resources such as cubes, rekenreks and number shapes 2. Number lines 3. Ten frames 4. Counters 5. Interlocking cubes 6. Place value arrow cards 7. 100 Squares 8. Base ten blocks and other base ten resources 9. Number stacks (to 20) 10. 0–9 spinners 11. 1c, 2c, 5c and 10c coins 12. €10 notes 13. PCMs 5, 8, 9, 33, 34, 35 |
| **Unit 9:**  **Location and Transformation** | 1. Small-world figures (e.g. farm animals) 2. Other figures or blocks to represent houses, etc. 3. Pictures of *Maths and Me* characters 4. Classroom Maps 5. 2-D geometric shapes 6. Pentominoes 7. Toothpicks 8. Straws 9. Pattern blocks 10. Peg boards 11. Small safety mirrors 12. Coins 13. Playing cards 14. Book: *Tom Crean: The Brave Explorer* by John and Fatti Burke |
| **Unit 10:**  **Measuring 1** | 1. Children’s own pencils and lunchboxes 2. Objects that could 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, uni-hoc 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, same type of book or copy) |
| **Unit 11:**  **Patterns** | 1. Pattern tiles and other classroom manipulatives 2. Any classroom equipment which could be used to create patterns such as interlocking cubes, shapes, counters and beads, 100 Squares and number tiles 3. 1c, 2c, and 5c coins 4. Counting aids such as number lines, base ten blocks, interlocking cubes, dice, dominoes, playing cards, spinners and abacus 5. 2-D and 3-D shapes in a variety of colours, size and thickness 6. Peg boards 7. 100 squares |
| **Unit 12:**  **Addition and Subtraction 3** | 1. Base ten blocks 2. 100 squares 3. Groupable base ten materials 4. Classroom resources such as counters, beads, shapes 5. Ten Frames |
| **Unit 13:**  **Measuring 2** | 1. School bags 2. Clothes hanger balance (i.e. wooden clothes hanger and two identical bags with handles), per group 3. Commercial 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 6. Water tray/tough tray 7. 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, syringes, small medicine measuring cups 8. Materials to pour into containers, e.g. water, sand, rice, cereal hoops 9. Multiple cups of uniform size and shape 10. Scoops 11. Funnels 12. Two toy cars and ramp per group |
| **Unit 14:**  **Time 2** | 1. Teaching clocks, preferably geared (i.e. hour hand moves when minute hand moves) 2. Online clocks |
| **Unit 15:**  **Money** | 1. Coins (1c to €2) 2. Play money (coins and notes) 3. A can/jar (must make noise when coins are dropped into it) 4. A pot to hold coins (for each pair) 5. Small pieces of card/paper for price tags 6. Purses (children could bring in their own) or small bags/pots 7. Counting aids such as number paths, 100 squares, rekenreks, counters 8. Large signs showing <, > and = symbols and the corresponding words: ‘more’, ‘less’ or ‘equal’. 9. 9-sided dice 10. Materials for class market stalls |
| **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 |
| **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. 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) 4. *\* 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 |
| **Unit 19:**  **Addition and Subtraction 4** | Classroom manipulatives, e.g. interlocking cubes, counters, beads, shapes, coins  Ten frames  Tens and ones grid  Groupable base ten materials  Base Ten Blocks |