## **Senior Infants *Maths and Me* Maths Equipment Overview**

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| **Unit 1:**  **Numbers to 10** | Manipulatives for counting, such as bears, links, cubes, counters and lollipop sticks   1. Counting supports, such as ten frames, number paths and rekenreks 2. Items for the Number of the Day station 3. Monty the puppet   Three paper plates per pair/group for part−whole templates  Sensory (‘feely’) bag made of opaque fabric and large enough to fit small manipulatives and allow a child’s hand to move around inside  An empty tin  Marbles or buttons  Scissors  Unit 1 Maths Language Cards  PCM 8 |
| **Unit 2:**  **Measuring 1** | Building materials, such as building blocks, magnetic blocks, interlocking cubes, Stickle Bricks and Lego  Toy animals for sorting by size (heavier toys, such as dinosaurs or good-quality farm animals; and lighter toys)  Toy furniture for sorting by size  Toy food for sorting by size  Lengths of string or ribbon  A variety of lengths of paper   1. Toy vehicles for sorting by size 2. Toy food for sorting by size (different collections from those used in Lesson 2) 3. Set of jars (different heights, widths and capacities) per group 4. Set of spoons (three different lengths, at least one to be too wide to fit into one of the jars) per group 5. Monty the puppet 6. Lunch box per pair 7. Box of paper clips per pair 8. Box of lollipop sticks per pair 9. Links, paper clips and matchsticks (as measuring tools) 10. Chalk 11. Collection of items to compare 12. Balance scale per pair/group 13. Box of marbles per pair 14. Two sorting hoops labelled ‘heavier’ and ‘lighter’ per group 15. A wide variety of containers (e.g. jugs, cups, bottles, tubs, boxes and suitcases) 16. Spoons and ladles 17. Dried rice, pasta or lentils 18. Cushions 19. Beanbags 20. Toys |
| **Unit 3:**  **Operations within 10** | Ten empty drinks bottles   1. Giant toppling tower 2. Manipulatives for counting, such as bears, links, cubes, counters and lollipop sticks 3. Counting supports, such as number paths, ten frames, counting beads and rekenreks 4. Reusable dry erase pockets 5. Markers 6. Three paper plates (one large; two smaller that are the same size) per pair for branching bond templates 7. Ten beanbags 8. Hula hoop   One dice per pair  PCM 10 |
| **Unit 4:**  **Time 1** | Monty the puppet   1. Scissors 2. Glue 3. Variety of timers, such as sand timer, kitchen timer, digital stopwatch and timer on smartphone 4. Variety of clocks and watches for the Time Area 5. Unit 4 Maths Language Cards 6. PCMs 11, 12 |
| **Unit 5:**  **Numbers to 15** | Manipulatives for counting, such as bears, links, cubes, counters and lollipop sticks  Toys  Counting aids, such as number paths, ten frames, counting beads, rekenreks, number shapes and part−whole models   1. Three paper plates (one large; two smaller that are the same size) per pair for branching bond templates   Representations of 11, 12, 13, 14 and 15 posters (printables)  PCMs 13, 14 |
| **Unit 6: Shape** | All available 2-D and 3-D equipment, including wooden building blocks, magnetic blocks, polydrons, tangrams, pattern blocks, geostrips, attribute blocks, materials from classroom/home  Counting supports such as rekenreks or ten frames  Geoboards, geostrips, pegs and pegboards, lollipop sticks  Sorting circles  Scissors  Paper  Glue  Play dough  Small 3-D shapes  Sensory (‘feely’) bag made of opaque fabric and large enough to fit 3-D shapes and allow a child’s hand to move around inside  Spinners or dice  Counters  PCMs 1, 15, 16, 17 |
| **Unit 7:**  **Operations within 15** | Manipulatives for counting, such as bears, links, interlocking cubes, counters and lollipop sticks  Counting aids, such as number paths, ten frames, counting beads, number shapes and rekenreks  A collection of 15 or fewer attribute blocks (circles, squares, rectangles and triangles only) per group  Toys  Picture books  Elastic bands or hair ties  Beads and cords  Counters and ten frames  Cuisenaire rods  Reusable dry-erase pockets and markers  Hula hoops and beanbags  Paper plates (three per pair/group)  Blank Bar Models  Dice (two per pair)  PCMs 21 and 22 |
| **Unit 8:**  **Numbers to 20** | Manipulatives for counting and grouping, such as bears, links, interlocking cubes, counters and lollipop sticks with elastic bands  Counting aids, such as number paths, ten frames, counting beads, rekenreks, number shapes and part−whole models (e.g. branching bond templates)  Representations of 16, 17, 18, 19 and 20 posters (printables) |
| **Unit 9:**  **Location and Transformation** | Treasure chest or teddy bear  Manipulatives such as cubes or bears  Empty tubs  Pipe cleaners  Scissors  Glue  Masking tape or string  Cones, beanbags or playground chalk  2-D and 3-D shapes  Geoboards (concrete and online) and elastic bands or pegboards and pegs  Mirrors |
| **Unit 10:** **Addition** | Manipulatives for counting and grouping, such as bears, interlocking cubes, links or counters  Paper plates (three per pair)  Paperclips  20 counters (ten of each of two different colours) per child  Book: *Albert Adds Up!* by Eleanor May, or *Mission: Addition* by Loreen Leedy  Book: *Balancing Bears: Comparing Numbers* by Megan Atwood, or *Scaredy Cats − A Book about Combinations of Ten* by James Burnett |
| **Unit 11:**  **Measuring 2** | Clothes hanger balance per group (i.e. wooden clothes hanger and two identical bags with handles)  Bucket balances  A wide variety of containers e.g. small and large ice cream tubs, takeaway coffee cups, takeaway smoothie cups, jugs, beakers, cups, juice carton, basins, lunch boxes, toy boxes, buckets, toy kitchen containers and small suitcases  Various objects to weigh and to use as uniform non-standard units  Collections of baking trays of different sizes  Jar of jam  Large jar filled with marshmallows  Spoons and ladles (variety of widths and heights)  Things that can be ‘poured’, such as sand, water, rice, dry pasta, cereal loops  Wrapped objects of various shapes and sizes (including large, light ones and small, heavy ones)  Clothes, towels or cushions  Copies, maths books, sticky notes, envelopes, chart paper, library books, crayon tubs and lunch boxes  Play dough  Cubes or blocks  Pipe cleaners  Sticky notes of different sizes  Tangram sets  Scissors  Book: *The Magic Porridge Pot* |
| **Unit 12:**  **Subtraction** | Small-world farm animals and other items for setting up farms  Coloured bibs  Markers  Ten frames and manipulatives  Cubes  Book: *Just Enough Carrots* by Stuart J. Murphy |
| **Unit 13:**  **Patterns** | Resources that can be used to make patterns, such as interlocking cubes, counters, pegs and pegboards, beads and pipe cleaners/strings, onto which they can be threaded, links, bears, pattern blocks, 2-D and 3-D shapes, buttons, bricks, blocks, small play sets with multiple identical pieces (e.g. animal counters, dinosaurs, food, tea sets, etc.), and objects from nature  Ten frames and counters  Cuisenaire rods  Number shapes  Dominoes |
| **Unit 14:**  **Money** | Materials for class shop, including cash register, card reader and banks cards  Counting aids such as counters, interlocking cubes and number paths  Play money or real coins  Scissors  Monty the puppet |
| **Unit 15: Fractions** | Sweets (or counters to represent sweets)  Manipulatives for counting, such as bears, links, cubes, counters and lollipop sticks  10 frames and counters  Three paper plates (one large; two smaller that are the same size) per pair for branching bond templates  Paper (large sheets, rectangular pieces, and strips)  Pencils or lengths of string/cord to use as partitioning lines  Dice (two per pair for half of the class)  Skipping ropes  Hula hoops  Chalk  Organiser baskets from the PE cupboard  Bean bags or balls  Scissors  Glue  String  Rulers  Stickers  Play dough  Plastic knives  Small mirrors  Selection of foods that can easily be halved, such as fruit, vegetables and biscuits  Classroom materials that can easily be halved  Pre-cut card/paper geometric shapes  Pegboards and pegs or geoboards and elastic bands  Pattern blocks  Dice (two or three per pair)  Cardboard circles  Bowls |
| **Unit 16: Time 2** | Manipulatives such as interlocking cubes, links, counters and cubes  Class clothesline and pegs  Resources for setting up a vet’s surgery, including soft toys (animals)  Class calendar  Squared paper  Sticky notes   1. Variety of clocks and watches for the Time Area   Teaching clocks, preferably geared (i.e. hour hand moves when minute hand moves)  Analogue clock (with hour and minute hands)  If possible: Analogue clock (with hour hand only)  Variety of timers, such as sand timer, kitchen timer, digital stopwatch and timer on smartphone  Selection of devices with an alarm, such as alarm clocks, phone app  Strips of paper of two different colours  Sticky tape  Glue  Scissors  String  Dice (two per pair)  Paper fasteners  Dry erase pockets  Markers |
| **Unit 17: Data** | Manipulatives such as counters and interlocking cubes  Children’s own shoes  Large grid drawn on paper  Table cloth or shower curtain  Small sticky notes  Containers or envelopes where choices/votes can be posted |