## **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
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| **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 puppet1. 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
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| **Unit 5:**  **Numbers to 15** | Manipulatives for counting, such as bears, links, cubes, counters and lollipop sticksToysCounting aids, such as number paths, ten frames, counting beads, rekenreks, number shapes and part−whole models1. 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/homeCounting supports such as rekenreks or ten framesGeoboards, geostrips, pegs and pegboards, lollipop sticksSorting circlesScissorsPaperGluePlay doughSmall 3-D shapesSensory (‘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 diceCountersPCMs 1, 15, 16, 17 |
| **Unit 7:**  **Operations within 15** | Manipulatives for counting, such as bears, links, interlocking cubes, counters and lollipop sticksCounting aids, such as number paths, ten frames, counting beads, number shapes and rekenreksA collection of 15 or fewer attribute blocks (circles, squares, rectangles and triangles only) per groupToysPicture booksElastic bands or hair tiesBeads and cordsCounters and ten framesCuisenaire rodsReusable dry-erase pockets and markersHula hoops and beanbagsPaper plates (three per pair/group)Blank Bar ModelsDice (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 bandsCounting 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 bearManipulatives such as cubes or bearsEmpty tubsPipe cleanersScissorsGlueMasking tape or stringCones, beanbags or playground chalk2-D and 3-D shapesGeoboards (concrete and online) and elastic bands or pegboards and pegsMirrors |
| **Unit 10:** **Addition** | Manipulatives for counting and grouping, such as bears, interlocking cubes, links or countersPaper plates (three per pair)Paperclips20 counters (ten of each of two different colours) per child Book: *Albert Adds Up!* by Eleanor May, or *Mission: Addition* by Loreen LeedyBook: *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 balancesA 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 suitcasesVarious objects to weigh and to use as uniform non-standard units Collections of baking trays of different sizesJar 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 cushionsCopies, maths books, sticky notes, envelopes, chart paper, library books, crayon tubs and lunch boxes Play doughCubes or blocksPipe cleanersSticky notes of different sizesTangram setsScissorsBook: *The Magic Porridge Pot* |
| **Unit 12:**  **Subtraction** | Small-world farm animals and other items for setting up farmsColoured bibsMarkersTen frames and manipulativesCubesBook: *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 natureTen frames and countersCuisenaire rods Number shapes Dominoes |
| **Unit 14:**  **Money** | Materials for class shop, including cash register, card reader and banks cardsCounting aids such as counters, interlocking cubes and number pathsPlay money or real coinsScissorsMonty the puppet |
| **Unit 15: Fractions** | Sweets (or counters to represent sweets) Manipulatives for counting, such as bears, links, cubes, counters and lollipop sticks10 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 linesDice (two per pair for half of the class)Skipping ropesHula hoopsChalkOrganiser baskets from the PE cupboardBean bags or ballsScissorsGlueStringRulersStickersPlay dough Plastic knivesSmall mirrorsSelection of foods that can easily be halved, such as fruit, vegetables and biscuitsClassroom materials that can easily be halvedPre-cut card/paper geometric shapes Pegboards and pegs or geoboards and elastic bandsPattern blocksDice (two or three per pair)Cardboard circles Bowls |
| **Unit 16: Time 2** | Manipulatives such as interlocking cubes, links, counters and cubesClass clothesline and pegsResources for setting up a vet’s surgery, including soft toys (animals)Class calendarSquared paperSticky notes1. 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 smartphoneSelection of devices with an alarm, such as alarm clocks, phone appStrips of paper of two different colours Sticky tapeGlueScissorsStringDice (two per pair)Paper fastenersDry erase pocketsMarkers |
| **Unit 17: Data** | Manipulatives such as counters and interlocking cubesChildren’s own shoesLarge grid drawn on paperTable cloth or shower curtainSmall sticky notesContainers or envelopes where choices/votes can be posted |