**Unit 1 Numbers to 10**

**Formative Assessment Observations Sheet**

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| **Lesson** | **Focus of learning** | **Assessment data relating to individuals/groups** |
| **Days 1 and 2, Lesson**  **1**  Counting | * Estimates the number of objects in a set up to 5 (R) * Reads, writes and orders numerals (U&C) * Recalls the number sequence forwards and backwards, from zero to at least 10 (U&C) |  |
| **Day 3, Lesson 2**  Bonds of 5 | * Accurately counts and compares sets from 1 up to at least 5 and establishes which set has more or less (R) * Partitions sets of 5 into two subsets and recognises that this does not affect the total (R) |  |
| **Days 4 and 5, Lesson**  **3**  Numbers to 10 | * Partitions sets of 10 into two subsets and recognises that this does not affect the total (R) * Demonstrates an ability to subitise various arrangements or models of numbers to 10 (U&C) |  |
| **Days 6 and 7, Lesson**  **4**  Comparing Numbers | * Orders and compares numerals 1−10 with each other (R) * Reads, writes and orders numerals up to 10 (U&C) |  |
| **Days 8 and 9, Lesson**  **5**  Ordering | * Establishes the number immediately before or after another number (R) |  |

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| **Lesson** | **Focus of learning** | **Assessment data relating to individuals/groups** |
|  | * Explains ordinality, using the language of after, before and in-between (C) * Recognises the use of ordinal numbers first, second, third and last in everyday life contexts (U&C) |  |
| **Day 10, Lesson 6**  Review and Reflect | * Reviews and reflects on learning (U&C) |  |

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| **Lesson** | **Focus of learning** | **Assessment data relating to individuals/groups** |
| **Day 1, Lesson 1**  Comparing Objects | * Explores and identifies the different attributes of a single object that can be measured (U&C) * Compares and orders objects according to length (U&C) |  |
| **Day 2, Lesson 2**  Size | * Describes and discriminates between items using appropriate comparative language (C) * Explores the conservation of length through practical activities (U&C) |  |
| **Days 3 and 4, Lesson**  **3**  Length | * Recognises that quantifying a measurement helps us describe and compare more precisely (U&C) * Records estimates and measures concretely, pictorially and orally (C) * Selects and uses appropriate materials to propose and estimate fair comparisons (A&PS) |  |
| **Day 5, Lesson 4**  Measuring | * Recognises that quantifying a measurement helps us describe and compare more precisely (U&C) * Records estimates and measures concretely, pictorially and orally (C) |  |

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| **Lesson** | **Focus of learning** | **Assessment data relating to individuals/groups** |
| **Days 6 and 7, Lesson**  **5**  Weight | * Explores and identifies the different attributes of a single object that can be measured (U&C) * Recognises the need for units to measure weight (R) |  |
| **Days 8 and 9, Lesson**  **6**  Capacity | * Recognises the need for units to measure capacity (R) * Compares and orders containers according to appropriate measurable attributes (A&PS) |  |
| **Day 10, Lesson 7**  Review and Reflect | * Reviews and reflects on learning (U&C) |  |

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| **Lesson** | **Focus of learning** | **Assessment data relating to individuals/groups** |
| **Day 1, Lesson 1**  Bonds of 10 | * Investigates various arrangements of manipulatives to prompt different mental images of numbers up to 10, while developing a sense of each number (R) * Orders and compares numbers 1−10 with each other (R) * Establishes the number immediately before or after another number without having to start at one (R) |  |
| **Days 2 and 3, Lesson**  **2**  Number Bonds | * Demonstrates understanding of all possible partitions of number bonds up to at least 10 (R) * Explores how the appearance of a set has no effect on the overall total (U&C) |  |
| **Days 4 and 5, Lesson**  **3**  More Bonds of 10 | * Uses comparative language (more, less, same/equal) to compare sets to at least 10 (C) * Orders sets of objects up to at least 10 (A&PS) * Uses manipulatives to demonstrate equivalence between the numeral and quantity of 10 (U&C) |  |
| **Day 6, Lesson 4**  Partitioning Sets | * Partitions sets of objects into two or more subsets (U&C) |  |

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| **Lesson** | **Focus of learning** | **Assessment data relating to individuals/groups** |
|  | * Partitions sets 2−10 into two or more subsets   and recognises that this does not affect the total  (R) |  |
| **Days 7 and 8, Lesson**  **5**  Adding | * Explores patterns in number sequences (U&C) * Begins to explore the zero property (U&C) * Describes similarities and differences between sets in terms of quantity (C) * Jumps forwards on a number path to begin to express addition (C) |  |
| **Day 9, Lesson 6**  Zero | * Begins to explore the zero property (adding zero to or subtracting zero from a number does not change the number) (U&C) * Describes simple growing and shrinking patterns (C) * Explains and argues the zero property of addition facts (C) * Combines sets of objects up to at least 10, including the empty set/zero (U&C) * Recognises the zero property of an empty set (U&C) |  |
| **Day 10, Lesson 7**  Review and Reflect | * Reviews and reflects on learning (U&C) |  |

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| **Lesson** | **Focus of learning** | **Assessment data relating to individuals/groups** |
| **Day 1, Lesson 1**  Using Time Language | * Articulates and shares prior understanding of time concepts and vocabulary (U&C) * Recalls the sequence of the days of the week (C) * Logically sequences daily events in real-life situations (R) |  |
| **Day 2, Lesson 2**  Sequencing Events | * Uses the vocabulary of time to sequence events (C) * Logically sequences daily events or stages in stories or real-life situations (R) * Correctly sequences stages of development of an event or story (A&PS) |  |
| **Day 3, Lesson 3**  Daily Time Intervals | * Identifies meaningful intervals of time in daily routines (R) * Logically sequences daily events in stories or real-life situations (R) * Analyses and sorts events according to when they occur (A&PS) * Identifies errors in chronological sequences of events (R) |  |

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| **Lesson** | **Focus of learning** | **Assessment data relating to individuals/groups** |
| **Day 4, Lesson 4**  Time Passing | * Recognises instruments which tell the time and acknowledges time passing throughout the day (A&PS) * Describes and represents sequences of events (C) * Logically sequences daily and weekly events or stages in stories or real-life situations (R) * Correctly sequences stages of development of an event or story (A&PS) |  |
| **Day 5, Lesson 5**  Review and Reflect | * Reviews and reflects on learning (U&C) |  |

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| **Lesson** | **Focus of learning** | **Assessment data relating to individuals/groups** |
| **Day 1, Lesson 1**  More Numbers to 10 | * Orders, reads and writes numerals up to at least 10 (U&C) * Establishes the number immediately before or after another number without having to start at 1 (R) |  |
| **Days 2 and 3, Lesson**  **2**  Numbers to 12 | * Discusses the grouping and swapping of ten ones to ‘make a group of ten’ (C) * Explores mathematical representation of tens and ones (C) * Explores how the names of numerals reflect their relationships to 10 (R) |  |
| **Days 4 and 5, Lesson**  **3**  Numbers to 14 | * Participates in grouping and swapping activities involving making tens (A&PS) * Partitions sets of 2−10 into two or more subsets and recognises that this does not affect the total (R) |  |
| **Day 6, Lesson 4**  Numbers to 15 | * Explore the relationship between the numbers   11−15 (U&C)   * Matches numerals and number words to sets and to other numerals in a variety of contexts (A&PS) |  |
| **Days 7 and 8, Lesson**  **5**  Tens and Ones to 15 | * Represents amounts of tens and ones as two- digit numbers (U&C) * Describes observable changes in quantitative terms (C) * Describes similarities and differences between |  |

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|  | sets in terms of quantity (C) |  |
| **Day 9, Lesson 6**  Ordering Numbers | * Recognises the use of ordinal numbers first, second, third, last in everyday life contexts (U&C) * Explains ordinality, using the language of after, before and in-between (C) |  |
| **Day 10, Lesson 7**  Review and Reflect | * Reviews and reflects on learning (U&C) |  |

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| **Lesson** | **Focus of learning** | **Assessment data relating to individuals/groups** |
| **Day 1, Lesson 1**  Shapes | * Selects appropriate criteria for shape sorting (R) * Explains how shapes have been sorted (R) |  |
| **Day 2, Lesson 2** Properties of 2-D Shapes | * Identifies and describes the properties of 2-D shapes, including the number of sides and corners (U&C) * Sorts, compares and classifies 2-D shapes into logical categories according to their attributes, size and geometric properties (R) |  |
| **Day 3, Lesson 3**  Sorting 2-D Shapes | * Sorts using simple Venn and Carroll diagrams (C) * Compares and sorts common 2-D shapes (C) |  |
| **Day 4, Lesson 4**  3-D Shapes | * Discusses similarities and differences between shapes (C) * Recognises and names common 3-D and 2-D shapes in different orientation and sizes (U&C) |  |
| **Day 5, Lesson 5** Properties of 3-D Shapes | * Identifies and describes simple properties and capabilities of some regular shapes (U&C) * Discusses similarities and differences between shapes (C) |  |
| **Days 6 and 7, Lesson**  **6**  Making 2-D and 3-D Shapes | * Selects appropriate materials to represent shapes (C) * Solves tasks and problems involving shapes (A&PS) |  |
| **Days 8 and 9, Lesson**  **7**  Shapes Around Us | * Sorts, compares and classifies 2-D and 3-D objects into logical categories according to their attributes, size and geometric properties (R) |  |

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|  | * Asks questions about the properties of shapes to determine their identity (C) * Solves tasks and problems involving regular shapes (A&PS) |  |
| **Day 10, Lesson 8**  Review and Reflect | * Reviews and reflects on learning (U&C) |  |

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| **Lesson** | **Focus of learning** | **Assessment data relating to individuals/groups** |
| **Day 1, Lesson 1**  Comparing | * Establishes the number immediately before or after another number without having to start at 1 (R) * Counts, individually and chorally, forwards and backwards within 20 starting at any given number using verbal, concrete and pictorial supports (U&C) |  |
| **Days 2 and 3, Lesson**  **2**  Combining Sets | * Composes and decomposes the structure of   numbers 11−15 in terms of tens and ones (U&C)   * Uses appropriate strategies to find out how many (A&PS) * Compares equivalent and non-equivalent sets by value (1 to at least 10) and establishes how much more/less (R) |  |
| **Days 4 and 5, Lesson**  **3**  Bar Models | * Demonstrates an ability to subitise various arrangements or models of numbers to 12 (U&C) * Investigates various arrangements of manipulatives to prompt different mental images of numbers up to 15, while developing a sense of each number (R) |  |
| **Days 6 and 7, Lesson**  **4**  Number Paths | * Orders and compares numbers 1−15 with each   other (R)   * Counts forwards in ones to demonstrate addition (C) |  |

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| **Lesson** | **Focus of learning** | **Assessment data relating to individuals/groups** |
| **Days 8 and 9, Lesson**  **5**  Addition | * Jumps forwards on a number line or path to begin to express addition (C) * Demonstrates understanding of all possible partitions of number bonds up to at least 10 (R) |  |
| **Day 10, Lesson 6**  Review and Reflect | * Reviews and reflects on learning (U&C) |  |

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| **Lesson** | **Focus of learning** | **Assessment data relating to individuals/groups** |
| **Day 1, Lesson 1**  Numbers to 15 | * Counts forwards and backwards within 20, and beyond (U&C) * Reads, writes and orders numerals up to at least 15 (U&C) * Composes and decomposes the structure of   numbers 11−15 in terms of tens and ones (U&C) |  |
| **Days 2 and 3, Lesson**  **2**  Numbers to 17 | * Recalls the number sequence forwards and backwards, between zero and at least 20, from any given number (U&C) * Reads, writes and orders numerals up to at least 17 (U&C) * Composes and decomposes the structure of numbers 16 and 17 in terms of tens and ones (U&C) |  |
| **Days 4 and 5, Lesson**  **3**  Numbers to 19 | * Reads, writes and orders numerals up to at least 19 (U&C) * Explores mathematical representation (manipulatives and/or pictorially) of tens and ones (C) * Composes and decomposes the structure of numbers 18 and 19 in terms of tens and ones (U&C) * Discusses the groupings of tens (and ones left over) (C) |  |

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| **Days 6 and 7, Lesson**  **4**  Numbers to 20 | * Reads, writes and orders numerals up to at least 20 (U&C) * Demonstrates an ability to subitise various arrangements or models of numbers to 20 (U&C) * Investigates various arrangements (for example: on ten frames) of manipulatives to prompt different mental images of numbers up to 20, while developing a sense of each number (R) * Orders and compares numbers 1−20 with each   other (R) |  |
| **Days 8 and 9, Lesson**  **5**  How Many? | * Selects and uses appropriate materials to make a variety of sets for a given number (A&PS) * Uses a range of counting strategies to determine quantities and justifies their efficiency (A&PS) |  |
| **Day 10, Lesson 6**  Review and Reflect | * Reviews and reflects on learning (U&C) |  |

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| **Lesson** | **Focus of learning** | **Assessment data relating to individuals/groups** |
| **Day 1, Lesson 1**  Space | * Describes the relative location of objects (U&C) * Use simple directional language to give directions (C) |  |
| **Days 2 and 3, Lesson**  **2**  Position | * Describes the proximity of objects (U&C) * Adjusts instructions to give more precise directions (R) * Identifies objects and specific locations using knowledge of spatial relations (A&PS) |  |
| **Day 4, Lesson 3**  Movement | * Describes the relative locations and movement of objects on picture maps and simple plans (U&C) * Navigates simple paths through various environments (A&PS) * Programmes simple digital devices to navigate appropriate maps or grids (A&PS) |  |
| **Day 5, Lesson 4**  Directions | * Makes predictions about location based on spatial understanding (R) * Creates simple maps or drawings of familiar settings and indicates the positionality of objects (A&PS) |  |

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| **Lesson** | **Focus of learning** | **Assessment data relating to individuals/groups** |
| **Day 6, Lesson 5**  Changing Shapes | * Identifies shapes in a variety of different orientations (U&C) * Uses appropriate language to describe movement and comparison of shapes (C) |  |
| **Day 7, Lesson 6**  Making New Shapes | * Recognises and identifies the parts of composite shapes (U&C) * Makes and describes composite shapes (C) * Makes predictions about shape movements and shape matching (R) |  |
| **Day 8, Lesson 7**  Mirror Symmetry | * Explores mirror symmetry of simple shapes and images (U&C) * Gives and follows instructions relating to the movement of shapes (C) * Makes predictions and justifies why some shapes have/do not have symmetry (R) |  |
| **Day 9, Lesson 8**  Making Shapes | * Selects and manipulates shapes to copy a model or structure (A&PS) * Engages in spatial puzzles or construction activities which involve moving, comparing or   combining shapes (A&PS) |  |
| **Day 10, Lesson 9**  Review and Reflect | * Reviews and reflects on learning (U&C) |  |

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| **Lesson** | **Focus of learning** | **Assessment data relating to individuals/groups** |
| **Day 1, Lesson 1**  Adding Zero | * Explains and argues the zero property (when you add zero to a number it does not change the number) (C) * Justifies with proof(s) the zero property and generalises for all numbers (R) |  |
| **Days 2 and 3, Lesson**  **2**  Number Paths | * Uses simple number paths for counting all and counting on as appropriate (A&PS) * Recognises that each subsequent number in a sequence is one more than the one that precedes it and one smaller than the one that comes after it (R) * Quantifies the jumps between units in growing numerical patterns (U&C) |  |
| **Days 4 and 5, Lesson**  **3**  Combining Sets | * Combines sets of objects, including the empty set/zero (U&C) * Uses simple number paths for counting all and counting on as appropriate (A&PS) |  |
| **Days 6 and 7, Lesson**  **4**  Counting On | * Responds to questions by counting mentally 1 or 2 more than a given number (C) * Explains different strategies used to count arrays (C) |  |

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| **Days 8 and 9, Lesson**  **5**  Addition | * Jumps forwards on a number path to express addition (C) * Represents and displays data gathered, using objects, pictures or simple graphs (C) * Collects data by asking simple questions of each other and gathering responses (A&PS) |  |
| **Day 10, Lesson 6**  Review and Reflect | * Reviews and reflects on learning (U&C) |  |

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| **Lesson** | **Focus of learning** | **Assessment data relating to individuals/groups** |
| **Day 1, Lesson 1**  Measuring | * Compares and orders objects, containers and surfaces according to appropriate measurable attributes (A&PS) |  |
| **Days 2 and 3, Lesson**  **2**  Capacity | * Recognises the need for units to measure capacity (R) * Estimates and measures the capacity of a range of items, using appropriate repetitions of the same-size unit in purposeful or problem-solving contexts (A&PS) * Records estimates and measures concretely, pictorially and orally (C) |  |
| **Days 4 and 5, Lesson**  **3**  Weight | * Recognises the need for units to measure weight (R) * Estimates and measures the weight of a range of items, using appropriate repetitions of the same- sized unit in purposeful or problem-solving contexts (A&PS) * Records estimates and measures concretely, pictorially and orally (C) |  |

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| **Days 6 and 7, Lesson**  **4**  Area | * Recognises the need for units to measure area (R) * Estimates and measures the area of a range of items, using appropriate repetitions of the same- sized unit in purposeful or problem-solving contexts (A&PS) * Records estimates and measures concretely, pictorially and orally (C) |  |
| **Days 8 and 9, Lesson**  **5**  Measurement Investigations | * Recognises that if different attributes are used to compare and order objects, the order may be different, and investigates and explains such cases (R) |  |
| **Day 10, Lesson 6**  Review and Reflect | * Reviews and reflects on learning (U&C) |  |