| Nursery |
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| Begin to know that objects can be <br> sorted, matched and compared |

- Begin to know vocabulary to compare size - big, small, long, short, tall
- Begin to know vocabulary to compare amounts - more, less
- Begin to know vocabulary to measure mass - heavy, light
- Begin to know vocabulary to compare capacity - full, empty
- Begin to know positional vocabulary in, on, under, on top
- Begin to know time vocabulary - day, night, morning, afternoon, before, after, today, tomorrow
- Know the name of some 2D shapes circle, square, triangle, rectangle
- Know that objects can be sorted, matched and compared
- Know what makes objects the same or different e.g. socks, wellies, animals, tower, shapes, number shapes (Numicon)
- Know that objects can be sorted by colour, shape or size
- Know which objects belong together within their classroom (through tidy up time)
- Know that sets of objects can be compared and ordered
- Know that a set of objects can have more items, fewer items or the same amount of items as another set
- Know the vocabulary used to compare amounts - 'more, fewer, most, least'
- Know vocabulary to compare height and length - 'long, longer, longest, short, shorter, shortest, tall, taller, tallest'
- Know vocabulary to compare capacity - full, empty
- Know vocabulary used to measure and compare mass: heavy, light, heavier, lighter
- Know how balance scales show objects have equal mass or are heavier or lighter than others
- Re-visit knowledge of vocabulary to compare capacity - full, empty
- Extend knowledge of vocabulary to compare capacity - half full, nearly full, nearly empty
- Re-visit knowledge of vocabulary used to measure and compare mass: heavy, light, heavier, lighter
- Extend knowledge of vocabulary to compare mass; heaviest, lightest
- Know that regular events happen on the same day each week
- Know that some processes, such as growing plants, take a long time
- Know the order the days of the week
- Begin to know the names of 3D shapes: cube, cuboid, sphere, cylinder, cone, pyramid
- Know which 3D shapes they could use to print a triangle, a square or a rectangle
- Revisit and build on knowledge of $A B$ patterns to begin know more complex ways to make patterns e.g. ABB, $A A B, A A B B, A A B B B$

Reception Summer term

- Know that shapes can be combined and separated to make new shapes
- Know that some quantities will share equally into two groups and some will not
- Know that places and models can be replicated
- Know that we can make maps and plans to represent places

- Find and match objects which are the same
- Put objects into matching pairs
- Put pictures into matching pairs
- Sort a group of objects by colour (given criteria and modelled first)
- Sort a group of objects by size (given criteria and modelled first)
- Sort a group of objects by shape (given criteria and modelled first)
- Build a tower to match one given (same construction material and same number of pieces)
- Through tidy up time, identify which objects go together
- Sort objects through their play e.g. plates, cups, bowls, cutlery (by colour)
- Explore height, length, weight and capacity through playful activities
- Pour from container to container to explore volume and capacity
- Begin to use vocabulary to compare heights, weights, lengths, capacities
- Begin to understand and use positional vocabulary e.g. in, on, under, on top
- Begin to understand and use vocabulary linked to time e.g. day, night, morning, afternoon, before, after, today, tomorrow
- Find and match objects which are the same
- Match pairs of objects and identify the odd one out (or the one missing a partner)
- Match, sort and compare picture cards
- Match number shapes (Numicon) and identify the odd one out (or the one missing a partner)
- Match objects/shapes to their corresponding outline shapes draw on paper
- Match a shape of different sizes to their corresponding outline draw on paper
- Build towers that are the same (same construction materials and same number of pieces/same height/length)
- Say what is the same about a group of objects and how they differ from another group e.g. different colour, shape, size
- Begin to understand that a group of objects can be sorted in different ways
- Say how they have sorted objects e.g. into colours, shapes, sizes
- Sort objects through their play e.g. plates, cups, bowls, cutlery (by colour), different types of food
- Sort blocks in different ways and begin to use and begin to use and understand vocabulary such as: stack, roll, shape, large, small, etc.
- Explore ways to sort natural objects, considering different criteria
- Identify which set has more or most items and which set has fewer or fewest
- Make direct comparisons by holding objects to estimate which feels heaviest and then use scales to check
- Use the language of heavy, heavier than, heaviest, light, lighter than, lightest to compare objects (starting with items which have an obvious difference in weight
- Explore capacity using different materials such as sand, water, rice and beads
- Use language of: tall, thin, narrow, wide and shallow to describe different containers
- Make direct comparisons by pouring from one container into another
- Use small pots or ladles to make indirect comparisons by counting how many pots it takes to fill a container
- Identify which of 2 containers holds more
- Order 3 (then 5 ) containers by their Capacity
- Use the language of: equal to, heavier than, lighter than, heaviest, lightest
- Identify which of 2 items is heavier/lighter
- Identify the heaviest/lightest object from a group of 3
- Use language to describe length and height e.g. The tree is tall, The pencil is short
- Use mathematical vocabulary relating to length (longer, longest, shorter, shortest), height (taller, tallest, shorter, shortest) and breadth (wider, narrower) to make direct comparisons between objects, through their play
- Select and rotate shapes to fill a given space
- Match arrangements of shapes, using positional language to describe where the shapes are in relation to each other
- Fit shapes together and take shapes apart - notice the new shapes they have made
- Investigate how many different ways a given shape can be build using smaller shapes
- Explore the different shapes they can make by combining a set of given shapes in different ways
- Recognise and make equal groups
- Notice that sometimes there are some items left over when they share or group - suggest ways to resolve these issues
- Notice odd and even structure on number shapes (Numicon) and by building pair-wise patterns on 10s frames
- Look at places and models from different positions and talk about what they notice
- Replicate simple models, constructions, real places and places in stories
- Use positional language to describe where objects are in relation to other objects
- Visualise simple models by playing barrier games and follow verbal instructions as they build
- Engage in extended problem-solving (linked to stories or activities in real life situations through play)



