### **Mathematics in Reception**

# **Spring Term**

## **Sequence of Learning**

In line with the EYFS Statutory Framework 2021

#### **Year R Mathematics Yearly Overview**

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Week 1		Number 5	Counting and Comparing	Addition	Counting, Comparing and Ordering	Time
Week 2		Number 6	Partitioning and Understanding Part-Whole	Subtraction	Understanding Part - Whole with Addition and Subtraction	Space
Week 3	Number 1	Number 7	Understanding 'Teens' Numbers	Halving and Doubling	Fractions	Money and Sorting
Week 4	Number 2	Number 8	Distance (length, height, width)	Number Sense	Distance and Mass/Weight	Number Sense
Week 5	Number 3	Number 9	Mass/Weight and Capacity/Volume	Addition and	Capacity/Volume and Money	Addition and
Week 6	Number 4	Number 10	Shape and Sorting	Subtraction	Shape and Sorting	Subtraction

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#### **Opportunities for Learning**

The following tables detail a suggested sequence of learning for Spring 1 that correspond with the Learning and Progression Steps (LAPS) for EYFS.

However, some of the content within the LAPS is best learned through daily routines and regular exposure through quality interactions during continuous provision. This specific content is:

- Rote counting back from 20
- Counting sounds and actions and keeping track of the count
- Understand and use the terms second, third, fourth and fifth to describe position in a line
- In everyday situations, understand and use the terms forwards, backwards, up, down, turn
- Understand that money can be in the form of coins and notes
- Understand that money can be paid in other ways such as plastic card or using the internet
- Sort coins into sets, e.g. all 1p coins, all 2p coins etc.
- Identify the properties of a 1p coin, e.g. brown/copper, round, small
- Select the 1p coin(s) from a larger group of mixed coins
- Understand that we can compare the order of events using words such as 'before' and 'after'
- Use the word 'before', understanding that it refers to preceding a particular event or item
- Use the word 'after', understanding that it refers to following a particular event or item
- Use the word 'between', understanding that it refers to the middle or second of three events
- Use the word 'today', understanding that it refers to the current day
- Use the word 'yesterday', understanding that it refers to the day before today
- Use the word 'tomorrow', understanding that it refers to the day after today
- Name the days of the week (not necessarily in order)
- Join in with rote recital of the days of the week in order

week 1	Big Idea – Counting and Comparing	
Lesson	LAPS – Learning Objective	Related Learning
	Recap rote count to 10 forwards and back from 10	
1	<b>Recap</b> recognise familiar arrangements for numbers up to 5 when on a dice or domino	
	Recap state without counting quantities within 5	
	Identify quantities of objects up to 5 when placed in a dice or domino arrangement	
2	Identify without counting whether a group has more / greater or fewer / less than 5 objects show 5 and the other group - piles of vastly different amounts - structured arrangement of objects in two lines - structured arrangement using ten frames  Repeat for 6 objects	When shown two groups within 10 (quick reveal), identify which is the best match for a given number Compare two sets of different objects saying which set is more, fewer, same, equal
	Identify without counting whether a group has more /	When shown two groups within 10 (quick
7	greater or fewer / less than 7 objects	reveal), identify which is the best match for a
3	As above	given number Compare two sets of different objects saying
	Repeat for 8 objects	which set is more, fewer, same, equal
4	Identify without counting whether a group has more / greater or fewer / less than 9 objects As above	When shown two groups within 10 (quick reveal), identify which is the best match for a given number Identify without counting whether a shown
	Repeat for 10 objects and use some structured equipment	amount is closer to 5 or 10
_	Compare three groups of the same object by matching objects together	Use the word 'most' to indicate the greatest amount Use the word 'fewest' to indicate the least
5	Structured arrangement of objects in three lines	amount
	Compare three groups by counting the objects	Understand that ordering can go from fewest to most or most to fewest
Week 2	Big Idea – Partitioning and Understanding Part–W	hole
Lesson	LAPS – Learning Objective	Related Learning
Lesson	Partition the whole set of objects between two groups	Understand and use conservation of number
Lesson 1		•
	Partition the whole set of objects between two groups  Draw a picture/jotting to represent their mathematics,	Understand and use conservation of number Use the word 'whole' to describe a set of objects Use the word 'part' to describe each partitioned set of objects Numbers up to 5
	Partition the whole set of objects between two groups  Draw a picture/jotting to represent their mathematics, e.g. 00000000 00  Recall addition and subtraction facts up to 5 (from Autumn term)  Partition the whole set of objects between two groups	Understand and use conservation of number Use the word 'whole' to describe a set of objects Use the word 'part' to describe each partitioned set of objects
1	Partition the whole set of objects between two groups  Draw a picture/jotting to represent their mathematics, e.g. 000000 00  Recall addition and subtraction facts up to 5 (from Autumn term)  Partition the whole set of objects between two groups 5 objects - how many different ways can the whole be	Understand and use conservation of number Use the word 'whole' to describe a set of objects Use the word 'part' to describe each partitioned set of objects Numbers up to 5 Understand and use conservation of number Use the word 'whole' to describe a set of objects
	Partition the whole set of objects between two groups  Draw a picture/jotting to represent their mathematics, e.g. OOOOOO OO  Recall addition and subtraction facts up to 5 (from Autumn term)  Partition the whole set of objects between two groups 5 objects - how many different ways can the whole be partitioned into two parts?	Understand and use conservation of number Use the word 'whole' to describe a set of objects Use the word 'part' to describe each partitioned set of objects Numbers up to 5 Understand and use conservation of number Use the word 'whole' to describe a set of objects Use the word 'part' to describe each
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Week 3	Big Idea – Understand 'Teens' Numbers (numbers	11-19)
Lesson	LAPS – Learning Objective	Related Learning
1	Count up to 20 objects (including different sized objects), moving each as they are counted	Recap Rote count from 1 to a given number up to 10, stopping at the correct place Recap Count out a group of 10 objects from a greater set Recap Place 10 objects in a specified container and recognise that it holds 10 Join in with rote counting from 1 to 20 Rote count from 1 to a given number up to 20, stopping at the correct place
2	Arrange a group of 11 objects into 1 group of 10 plus a group of 1 (use part – whole language) Use number equipment such as art straws (bundles of 10) Unifix, ten frames, to create a group of 10 plus 1 Repeat for the number 12 and 13 Select the numeral to match amounts from 10 to 13 when in order	Rote count from one number to another within 10, starting and stopping at the correct place Join in with rote counting up to 20 from a number other than 1 Recognise numerals 10-13 Identify a given number from a selection within the range 0-13 Find the numeral that comes before or after a given numeral
3	Arrange a group of 14 objects into 1 group of 10 plus a group of 4 (use part – whole language) Use number equipment such as art straws (bundles of 10) Unifix, ten frames, to create a group of 10 plus 4 Repeat for the number 15 and 16 Select the numeral to match amounts from 10 to 16 when in order	Rote count from one number to another within 10, starting and stopping at the correct place Join in with rote counting up to 20 from a number other than 1 Recognise numerals 10-16 Identify a given number from a selection within the range 0-16 Find the numeral that comes before or after a given numeral
4	As above for number 17, 18 and 19	
5	Recap numbers 11-19 being composed of a group of 10 plus another number  Arrange a group of 20 objects into 2 groups of 10  Select the numeral to match amounts from 10 to 20 when in order	Recognise that when two ten frames are full this represents 20 Represent a given amount up to 20 using objects, own marks and symbols and explain what their symbols represent Recognise and identify numerals 0-20
	Big Idea - Distance (length, height, width)	
Opportu	unity to apply knowledge of numbers to 20	
Lesson	LAPS – Learning Objective	Related Learning
1	Compare the lengths of two items using direct comparison and use the terms longer and shorter	Understand that length refers to how long or short an item is Understand that to compare the lengths of objects they need to be pointing in the same direction Understand that comparing the lengths of objects is easier if they line up at one end Recognise that the length of an item does not change when it is moved to another place Recognise that the length does not change when its orientation changes
2	Order a set of three items from longest to shortest (and vice versa) using direct comparison  Use non-standard units that are <u>not</u> uniform (e.g. twigs) to measure length to recognise that different results may be obtained when measuring the same item	Use a systematic approach to compare each item against the others (when comparing three items) Understand that the length of an object can be represented by a number Recognise that the number of uniform non-standard items must span from one end of the dimension being measured to the other with no gaps between the non-standard items

3	Compare the widths of two items and use the terms wider and narrower  Order a set of three items from widest to narrowest (and vice versa) using direct comparison  Use non-standard units that are not uniform to measure width to recognise that different results may be obtained when measuring the same item	Understand that width refers to how wide or narrow an item is Understand that to compare the widths of objects they need to be pointing in the same direction Understand that comparing the widths of objects is easier if they line up at one end Recognise that the width of an item does not change when it is moved to another place Recognise that the width does not change when its orientation changes Use a systematic approach to compare each item against the others (when comparing three items) Understand that the width of an object can be represented by a number Recognise that the number of uniform nonstandard items must span from one end of the dimension being measured to the other with no gaps between the non-standard items
	Compare the heights of two items using direct comparison and use the terms taller and shorter  Order a set of three items from shortest to tallest (and vice	Understand that height refers to how tall or short an item is Understand that to compare the heights of objects it is easier if they are near to each other
4	versa) using direct comparison  Use non-standard units that are <u>not</u> uniform to measure height to recognise that different results may be obtained when measuring the same item	Understand that comparing the heights of objects is easier if their bases are on the same level Recognise that the height of an item does not change when it is moved to another place
5	Use non-standard units that are <u>not</u> uniform to measure lengths/heights/widths to recognise that different results may be obtained when measuring the same item Understand that the length/height/width of an object can be represented by a number	Recognise that the number of uniform non- standard items must span from one end of the dimension being measured to the other with no gaps between the non-standard items Use a systematic approach to compare each item against the others (when comparing three items) Order a set of three items from tallest to shortest; longest to shortest; widest to narrowest Order a set of three items from shortest to tallest; shortest to longest; narrowest to widest
	Big Idea – Mass/Weight and Capacity/Volume Inity to apply knowledge of numbers to 20	
Lesson	LAPS – Learning Objective	Related Learning
1	Explore what happens when two objects are placed on each side of the balance scale  Understand that if the balance scale is level, the objects being compared are equal in mass/weight  Use a balance scale to compare the weights of two objects understanding that the lower side contains the heavier object and the higher side contains the lighter object	Understand that mass is the correct term for weight and that mass/weight refers to how heavy or light an item is Recognise that the mass/weight of an item does not change when the item is moved to a different place Recognise that the mass/weight of an item does not change when its orientation changes Understand and use language to compare two objects of different mass/weight e.g. heavier/lighter
2	Understand that the mass/weight of an object can be represented by a number  Understand that to measure the mass/weight of an object using a balance scale the object needs to be placed on one side and counting items placed on the other side until the balance is level	Use non-standard units that are <b>not</b> uniform (compare bears of different sizes or pebbles) to measure mass/weight to recognise that different results may be obtained when measuring the same item

3	Understand that volume refers to how much liquid is in a container	Understand that comparing the volume of two of the same containers holding different	
	Understand that the capacity refers to how much a container can hold when it is full	amounts is easier if they are near to each other	
	Use the terms full, empty, nearly full and nearly empty to describe volume/capacity	Understand that comparing the volume of two of the same containers holding different	
	Compare the volumes of two of the same container holding different amounts and use the terms more or less	amounts is easier if their bases are on the same level	
4	Use a systematic approach to compare each item against the others (when comparing three identical containers)	Recognise that the volume/capacity of a container does not change when its orientation changes	
	Order a set of three identical containers from most full to least full and vice versa	Recognise that the volume/capacity of a container does not change when the item is moved to another place	
	Understand that the capacity of a container can be represented by a number		
5	Understand that to measure the capacity of a container it needs to be filled by repeatedly using the same sized smaller container		
Week 6	Big Idea – Shape and Sorting		
Lesson	LAPS – Learning Objective	Related Learning	
	Recognise and name circle Identify a circle from a wider selection of shapes	Understand and use the terms straight, flat, round, side, sharp, point(ed), vertex/corner	
_	Recognise and name square rectangle	Find pairs of shapes that are identical	
1	Identify a square rectangle from a wider selection of shapes (rectangles can either be squares or oblongs, therefore the	Find pairs of shapes that are the same despite being different sizes	
	recommendation is to use the full name for these shapes)	Find pairs of shapes that are the same despite	
	Say what is the same about a given group of shapes	being in different orientations	
	Recognise and name oblong rectangle Identify an oblong rectangle from a wider selection of shapes	Understand and use the terms straight, flat, round, side, sharp, point(ed), vertex/corner Find pairs of shapes that are identical Find pairs of shapes that are the same despite	
2	Recognise and name triangle Identify a triangle from a wider selection of shapes	being different sizes Find pairs of shapes that are the same despite being in different orientations	
	Say what is the same about a given group of shapes	Create pictures with 2-D shapes, naming some of the shapes used	
		Understand and use the terms flat, curved,	
	Recognise and name cube	solid, round, face, sharp, point(ed), vertex/corner	
	Identify a cube from a wider selection of shapes	Recognise that some shapes roll and some do	
3	Recognise and name cuboid	not Find pairs of shapes that are identical	
	Identify a cuboid from a wider selection of shapes	Find pairs of shapes that are the same despite	
	Say what is the same about a given group of shapes	being different sizes Find pairs of shapes that are the same despite	
	Build and make models with 3-D shapes	being in different orientations	
		Find pairs of shapes that are identical Find pairs of shapes that are the same despite	
4	Recognise and name sphere Identify a sphere from a wider selection of shapes	being different sizes Find pairs of shapes that are the same despite being in different orientations	
	Say what is the same about a given group of shapes	Understand that shapes such as cubes and	
	Build and make models with 3-D shapes	cuboids are better for building than spheres,	
		cones and pyramids Understand that cylinders can be used for building if placed in the correct orientation	
	Continue a repeating pattern	Name and identify circles, triangles, square	
5	Create a repeating pattern from a given description, e.g. make me a pattern that is circle, square rectangle, circle, square rectangle	rectangles, oblong rectangles Name and identify spheres, cubes and cuboids	
	Recognise where a set of objects is arranged in a repeating pattern and where it is not	Understand and use the terms first, before, next, after, between	

	<b>Big Idea – Addition</b> (the focus is on understanding t umber sentences)	he concept of addition, <b>not</b> recording		
Lesson	LAPS – Learning Objective	Related Learning		
1	Know that one more is found by adding one object to an existing group of objects			
	Recognise that one more is the next number in the counting sequence (when counting in ones)			
2	Know that two more is found by adding two objects to an existing group of objects	Understand that two can be made by adding one and another one Recognise that two more is one more and another one more		
7	Combine two groups of objects (total within 5) recalling how many are there in total using addition facts			
3	Combine two groups of objects (total within 10) counting how many are there			
4	In practical situations, understand that when two parts are combined, they make the whole	Label the individual groups as <b>parts</b> Label the combined group of objects as the <b>whole</b>		
5	In practical situations, understand that when two parts are combined, they make the whole	Label the individual groups as <b>parts</b> Label the combined group of objects as the <b>whole</b>		
	<b>Big Idea – Subtraction</b> (the focus is on understandir g formal number sentences)	ng the concept of subtraction, <b>not</b>		
Lesson	LAPS – Learning Objective	Related Learning		
1	Know that one fewer is found by removing/taking away one object from an existing group	Know that fewer and less mean the same thing but fewer is used when counting		
	Recognise that one less is the next number in the counting sequence when counting back (in ones)	objects		
2	Know that two fewer is found by removing/taking away two objects from an existing group	Know that fewer and less mean the same thing but fewer is used when counting objects Recognise that two fewer is one fewer and another one fewer		
	Combine two groups of objects (total within 5) recalling how many are there in total using addition facts			
3	Subtract a single-digit number from a number up to 5 by removing a given amount from a greater set (with a whole of up to 5) recalling how many are left using subtraction facts			
4	Subtract a single-digit number from a number up to 10 by removing a given amount from a greater set (with a whole of up to 10) counting to identify how many are left	Label the original set of objects as the whole Label the removed group of objects and those that are left as parts when these are easy to distinguish from one another		
5	Subtract a single-digit number from a number up to 10 by removing a given amount from a greater set (with a whole of up to 10) counting to identify how many are left	Label the original set of objects as the whole Label the removed group of objects and those that are left as parts when these are easy to distinguish from one another		
Week 9	Week 9 Big Idea – Halving and Doubling			
Lesson	LAPS – Learning Objective	Related Learning		
1	Understand that when an object (that can be cut) has been shared equally between two, both parts are the same	Label the individual groups as <b>parts</b> Label the original group of objects as the <b>whole</b>		
2	Understand that when an amount has been shared equally between two, both parts are the same	Label the individual groups as <b>parts</b> Label the original group of objects as the		
_	Recognise, by counting, whether an amount has been shared equally between two or not	whole		
3	Understand that when an amount has been shared equally between two, both parts are the same	Label the individual groups as <b>parts</b> Label the original group of objects as the		
	Recognise, by counting, whether an amount has been shared equally between two or not	whole		

4	In real life contexts, use practical equipment to identify the doubles of numbers up to 5	Label the individual groups as <b>parts</b> Label the combined group of objects as the
4	Understand that doubling is adding the same number to itself	whole
_	In real life contexts, use practical equipment to identify the doubles of numbers up to 5	Label the individual groups as <b>parts</b>
5	Understand that doubling is adding the same number to itself	Label the combined group of objects as the whole
	Automatically recall double facts to double 5	
Week 10	) Big Idea – Number Sense	
Lesson	LAPS – Learning Objective	Related Learning
1	Use number equipment such as bundles of art straws, Unifix (tower of 10), ten frame with counters to create a group of 10 plus another group	Understand and use conservation of number Partition the 'whole' set of objects between two groups, e.g. 14 biscuits with 4 on one plate and 10 on another Use the word 'whole' to describe a set of objects, e.g. in a group of 14 biscuits, the 'whole' is 14
2	Use number equipment such as bundles of art straws, Unifix (tower of 10), ten frames with counters to represent the full counting sequence from 1 to 20 (make own number track with numerals and amounts)	Use number equipment such as bundles of art straws, Unifix (tower of 10), ten frame with counters to create a group of 10 plus another group
3	Use number equipment such as bundles of art straws, Unifix (tower of 10), ten frames with counters to represent given numbers within the full counting sequence from 1 to 20 (match numeral to amount and vice versa)	Use number equipment such as bundles of art straws, Unifix (tower of 10), ten frame with counters to create a group of 10 plus another group Recognise that when two ten frames are full this represents 20
4	Understand and partition the numbers 11 to 19 as 10 and 1, 10 and 2, 10 and 3 etc. (numbers/amounts of items represented on ten frames)	Understand and use <b>part</b> and <b>whole</b> language Know that when objects are arranged in a line are spread out the total remains the same Know that when a group of objects is moved to a different location (seen or unseen) the total remains the same Understand and use conservation of number
5	Understand and partition the numbers 11 to 19 as 10 and 1, 10 and 2, 10 and 3 etc. (numbers/amounts of items represented on using other ways of showing a group of 10 e.g. 10 pencils in a pot labelled 10 and some more loose pencils)	Understand and use <b>part</b> and <b>whole</b> language Know that when objects are arranged in a line are spread out the total remains the same Know that when a group of objects is moved to a different location (seen or unseen) the total remains the same Understand and use conservation of number
Week 11	Big Idea – Addition and Subtraction	
Lesson	LAPS – Learning Objective	Related Learning
1	Find one more than a given number within 10 Find one fewer/less than a given number within 10	Understand that if one object/item is added to an amount and then that same object/item is taken away from this total, the result is the original number.  This can progress on to adding one item and removing a different item.
2	Find two more than a given number within 10 Find two fewer/less than a given number within 10	Understand that if two objects/items are added to an amount and then the same objects/items are taken away from this total, the result is the original number. This can progress on to adding two items and removing two different items.
3	Understand that if a number is added to another and then the same number is then taken away from this total, the result is the original number.	Combine two groups of objects (total within 10) counting how many there are. Remove a given amount from a greater set (with a whole of up to 10) counting to identify how many are left
4	In practical situations, understand that when two parts are combined, they make the whole Addition - Label the individual groups as parts - Label the combined group of objects as the whole	

5	In practical situations, understand that when one part is removed from the whole it leaves another part Subtraction - Label the original set of objects as the whole - Label the removed group of objects and those that are left as parts when these are easy to distinguish from one another	
Week 12	Big Idea – Addition and Subtraction	
Lesson	LAPS – Learning Objective	Related Learning
1	In practical situations, understand that when two parts are combined, they make the whole Addition - Label the individual groups as parts and use numerals to represent them - Label the combined group of objects as the whole and use numerals to represent them	Combine two groups of objects (total within 10) counting how many are there
2	In practical situations, understand that when two parts are combined, they make the whole Addition - Label the individual groups as parts and use numerals to represent them - Label the combined group of objects as the whole and use numerals to represent them	Combine two groups of objects (total within 10) counting how many are there
3	In practical situations, understand that when one part is removed from the whole it leaves another part Subtraction - Label the original set of objects as the whole and use numerals to represent them - Label the removed group of objects and those that are left as parts when these are easy to distinguish from one another and use numerals to represent them	Remove a given amount from a greater set (with a whole of up to 10) counting to identify how many are left
4	In practical situations, understand that when one part is removed from the whole it leaves another part Subtraction - Label the original set of objects as the whole and use numerals to represent them - Label the removed group of objects and those that are left as parts when these are easy to distinguish from one another and use numerals to represent them	Remove a given amount from a greater set (with a whole of up to 10) counting to identify how many are left
5	Understand that if a number is added to another and then the same number is then taken away from this total, the result is the original number.	Combine two groups of objects (total within 10) counting how many there are.  Remove a given amount from a greater set (with a whole of up to 10) counting to identify how many are left