Maths in Reception at Bessemer

By Laura Dunphy



- * To get an insight into how Maths is taught.
- To outline the different stages in maths development through the year.
- * To develop confidence in helping your child at home.

Number Expectation

Number

Children at the expected level of development will:

- * Have a deep understanding of number to 10, including the composition of each number;
- * Subitise (recognise quantities without counting) up to 5;
- * Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts.

Numerical patterns

- * Verbally count beyond 20, recognising the pattern of the counting system.
- * Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity.
- Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.

Concrete Pictorial Abstract Approach

Concrete	Pictorial	Abstract
		1
		2
		3
		4

Concrete is the 'doing' stage, using concrete objects to solve problems.

Pictorial is the 'seeing' stage, using representations of the objects involved in maths problems.

Abstract is the 'symbolic' stage, where children are able to use abstract symbols to model and solve maths problems.

Representing numbers



Counting strategies

- I can line the objects up
- * I can touch and count each object one at a time
- * I can count aloud
- * I know when I finish counting that is the total amount
- * I can check by recounting

Recognising amounts

Understanding that the total stays the same even when the objects move

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•	•		



Reasoning

- true and false statements eg adding one to a number always makes it smaller
- * spotting incorrect maths eg 1, 2, 3, 4, 6, 5, 7, 8, 9, 10
- explaining how we know something or how we worked it out

Autumn term Number words and numerals

 The main focus is the development of children's knowledge and use of the number sequence from one to five, and the recognition of the numbers 1 to 5.

Counting sets

 This focuses on the development of children's ability to count up to five objects and to recognise, without counting, sets of one, two or three objects



How can you help at home?

Remember to keep maths practical and fun!







more

Spring term Number words and numerals

 Focuses on the development of children's knowledge of the number sequence from one to ten and recognition of the numerals 1 to 10

Counting sets

 Concentrates on extending children's counting skills to enable them to count up to ten objects, actions or sounds accurately

How can you help at home?

Remember to keep maths practical and fun!



Addition

LQ: Can you solve addition problems?

Izzy **22** made **7** A robots and her grandad made **4** more. How many did she have **altogether**?



Addition



Addition



Subtraction

Izzy made 10 for rockets and her grandpa took 3 away. How many did she have left?



Subtraction

Izzy made 10 2 rockets and her grandpa took 3 away. How many did she have left?

*	K K K K K K K K	Key Questions? Is this an addition or subtraction problem? How do you know?
		Which words tell us that?
		How can you work out your answer?
		How can we check?
0 1	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	

Subtraction





How can you help at home?

Rose

Remember to keep maths practical and fun!







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Summer term Number words and numerals

* Extends the range of numbers that children can confidently use, including zero and numbers to 20

Counting sets



 Focuses on extending children's counting skills to enable them to count up to ten objects accurately, in any arrangement. Doubling and halving amounts as well as sharing.

How can you help at home?

Remember to keep maths practical and fun!



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BI	NC	GO	в		G O
5	9	15	3	10	19
6	8	18	6	9	15
1	13	16	7	13	16
		1. A	<u> </u>		
BI	N C	G 0	в	N C	G 0
B I 5	N (G O 16	B 2	N (G O 20
B I 5 3	N (11 14	G O 16 17	B 2 7	N (8 10	C 20 17

Let's subract by counting back.



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Show the children a bowl of strawberries. Explain that you are going to share them into 2 equal groups so there will be half for you and half for your friend. Put a handful straight onto each plate without counting – make sure that one plate has much more strawberries than the other. Ask the children if that is fair. Prompt them to show you how to share the strawberries fairly.



Sorting



Positional language and Shape













The Bad-Tempered Ladybird Eric Carle



3 2





Weight and Capacity Float or sink?











Full or empty?



กระกับระกับ



Size – length, height and distance Big, middle sized or small?







Tall or short?



















Online learning







Questions?