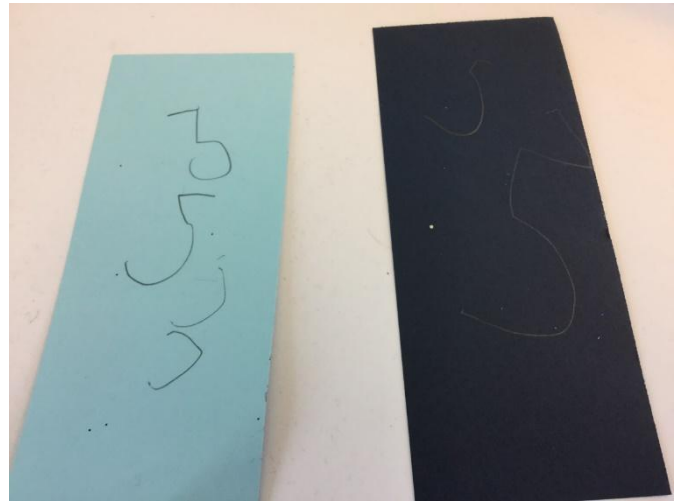
How we teach Maths in Butterflies

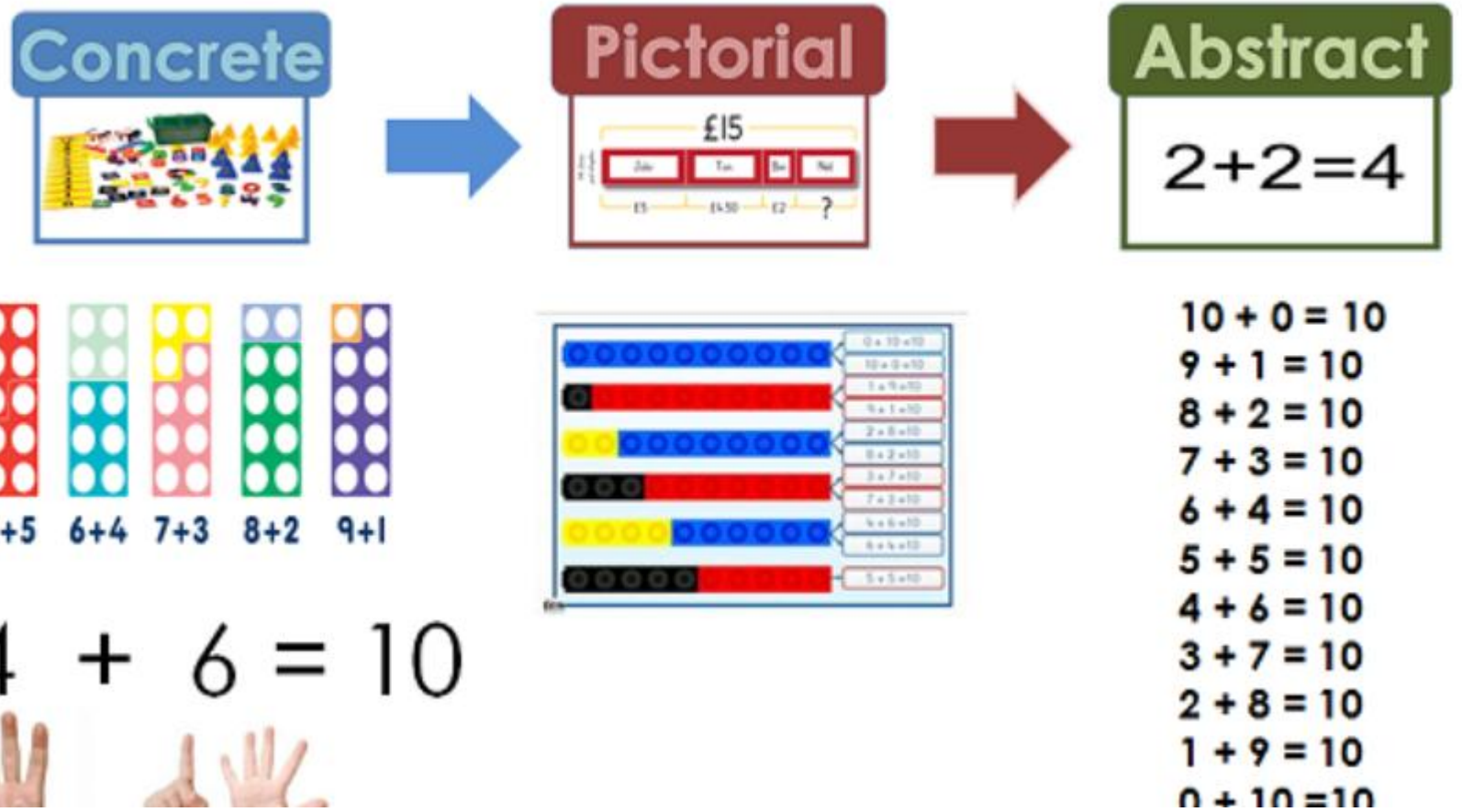
Day to day opportunities…

- Counting songs – singing sessions every day
- Bringing maths into every day life e.g visual timetables (sequencing), days of the week, months, dates, sorting
- Continuous provision – sensory play, writing numbers modelling, number puzzles, magnetic numbers, maths resources such as numicon, dice, numberlines, unifix cubes, number fans
- Numberlines inside and outside
- Number formation display
- Use of timers and clocks
- Interactive games on the whiteboard – Topmarks, Cbeebies
- Numberblocks


Magnetic Counting Maze



Concrete Pictorial abstract



Concrete: Students manipulate hands-on concrete materials.

Ten Frame

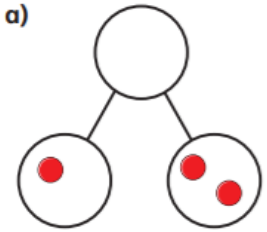
- Numicon – number recognition, ordering numbers, comparing numbers, number bonds, addition.
- Counters – counting groups of objects,
- Compare bears – counting, number bonds, adding, taking away.
- Tens frames – counting, number bonds, adding, taking away.
- Other objects – sorting

Pictorial – children observe and use models.

Part-whole model

1 Draw counters to complete the part-whole models.

a)



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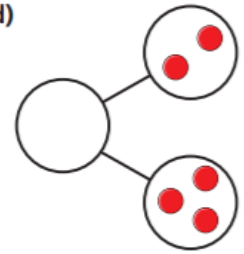

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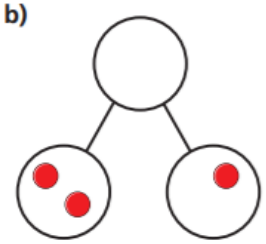

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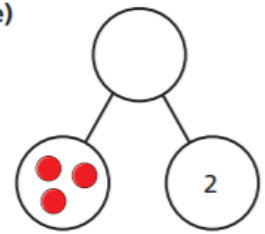

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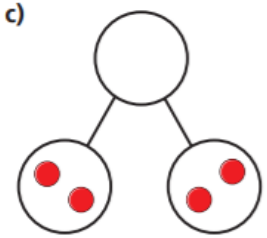

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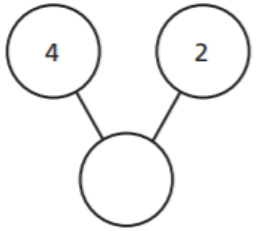
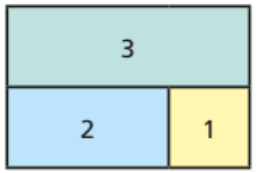


White Rose Maths

2 Complete a fact family for each bar model.

	+		=		
	+		=		
	=		+		
	=		+		

a)



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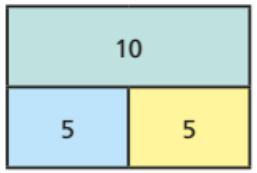
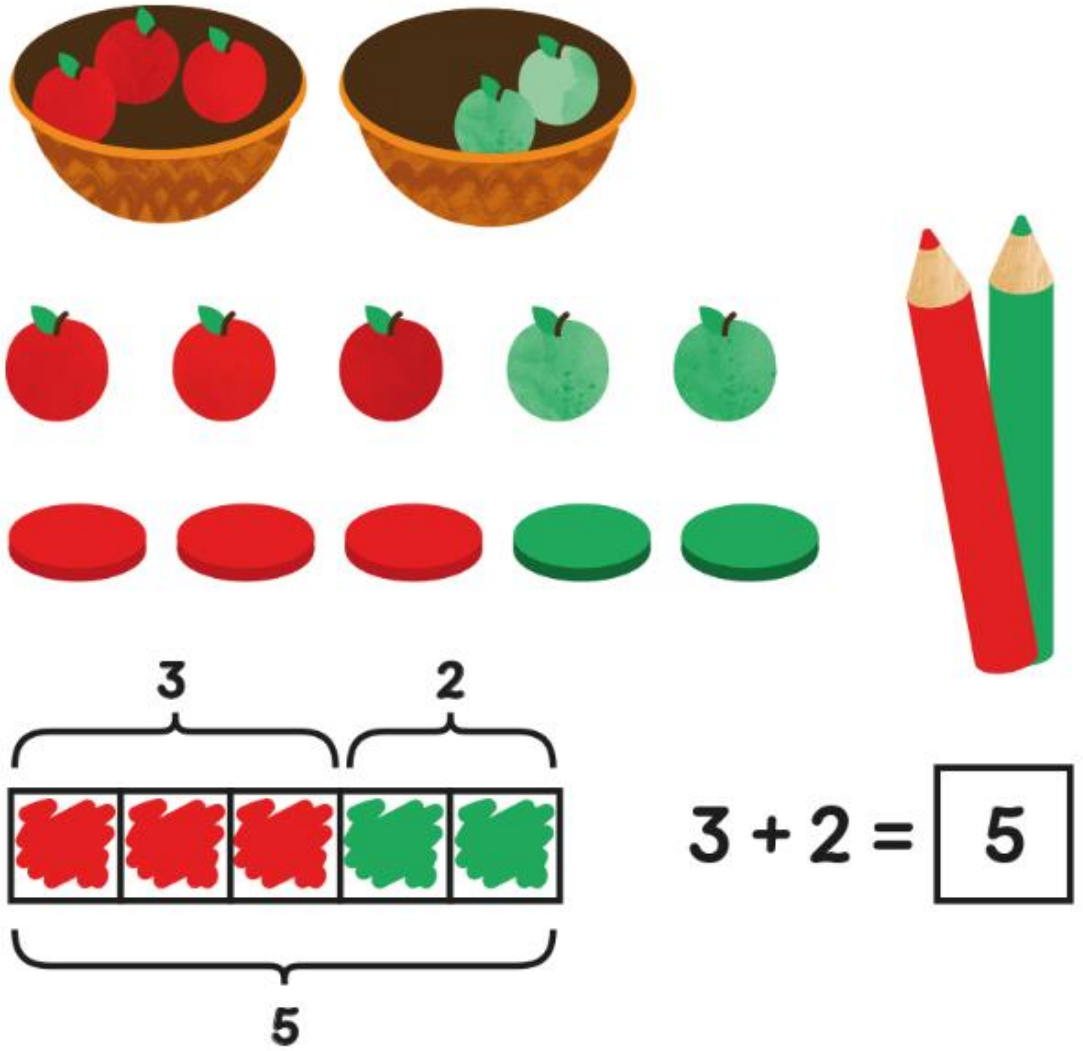


3 Use the digit cards to complete a fact family.

6	9	3

4 Work with a partner to write a different fact family.

Abstract – symbolic stage



White Rose Maths

- In Butterflies we follow the White Rose curriculum alongside the mainstream school.
- We teach using the planning and resources however we teach at a pace that is appropriate for the children and coverage may not always be in line with the yearly overview. We also adapt and respond to the children's learning. For example, as they progress or if they need repetition.
- We use the EYFS curriculum and then when the children are ready we use the Year 1 curriculum.

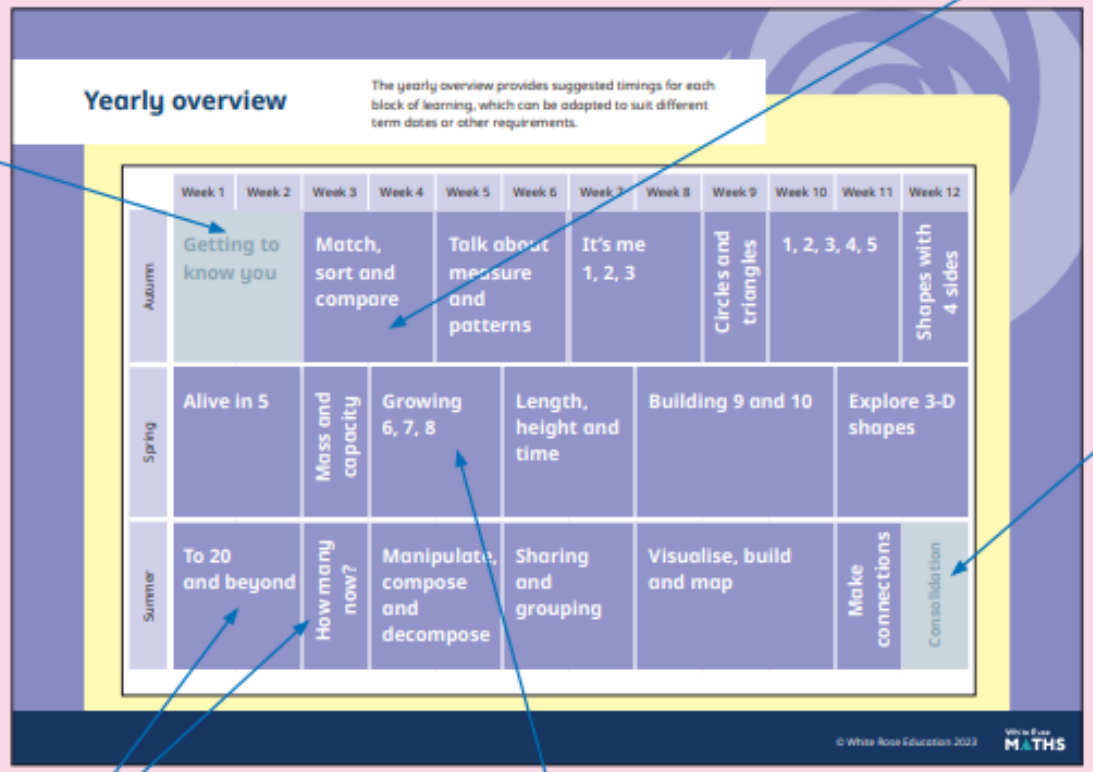
White Rose EYFS

Yearly overview

Overview with suggested weekly timings. Block titles are clear and show progress through number and spatial reasoning.

Early blocks focus on use of provision to support key early maths and routines.

The first 2 weeks are for you to get to know children, develop routines and give you the flexibility to complete baseline assessments.



Consolidation weeks allow for a degree of flexibility in the suggested block lengths or to consolidate learnin based on the needs of your children.

Content is consolidated so all concepts are explicitly taught before assessment for ELG.

Subitising is taught both perceptually and conceptually throug the blocks. Concepts such as doubling and 1 more / 1 less is focused on in the progression of the numbers.

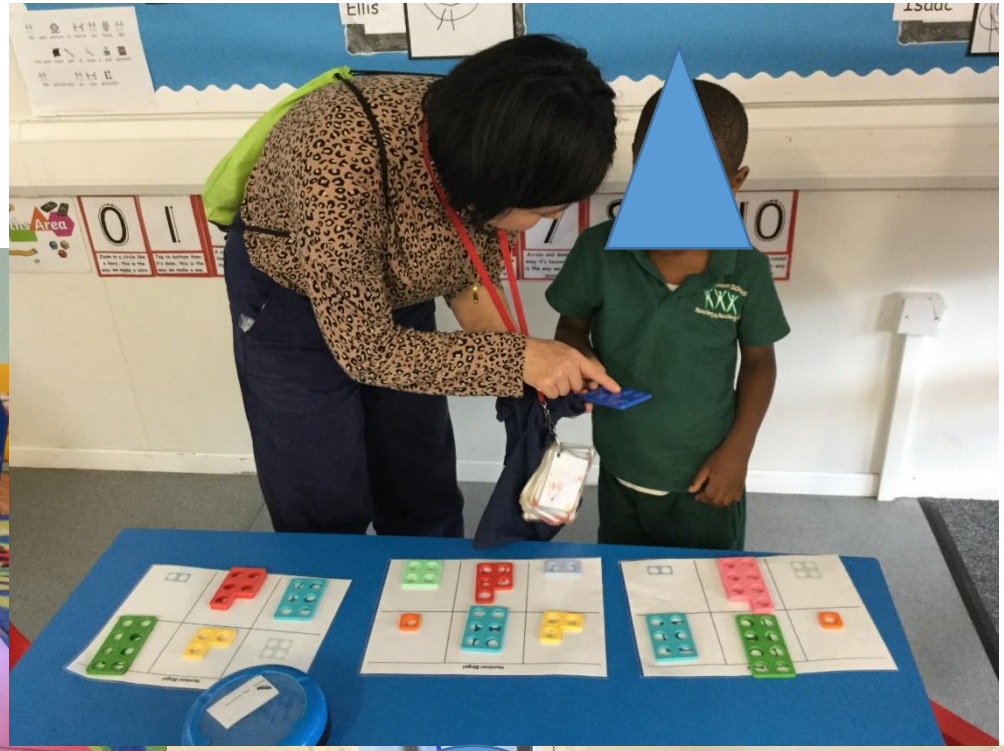
White Rose Year 1 Overview

Yearly overview

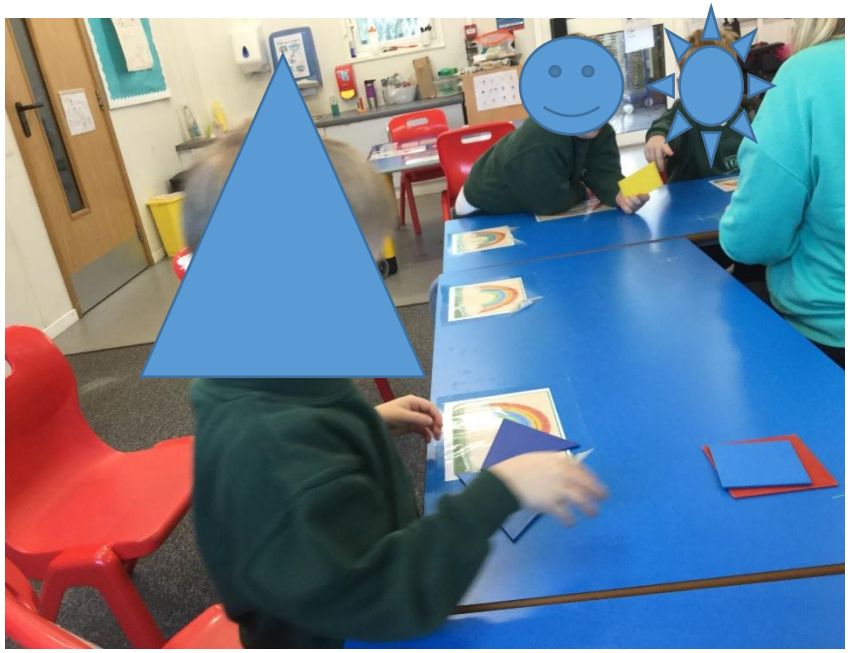
The yearly overview provides suggested timings for each block of learning, which can be adapted to suit different term dates or other requirements.

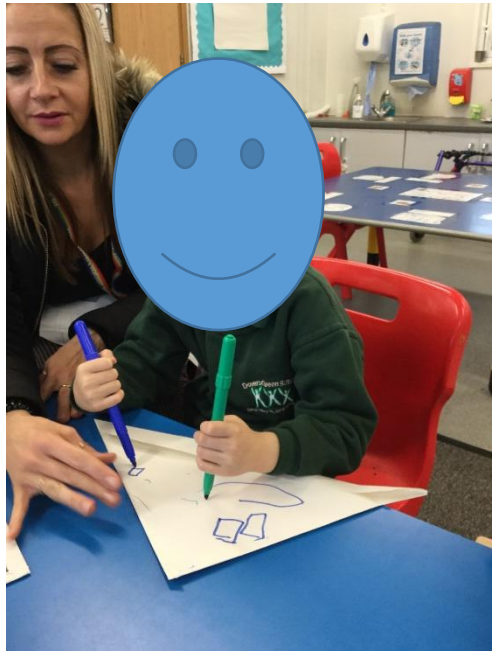
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number **Place value (within 10)**					Number **Addition and subtraction (within 10)**					Geometry **Shape**	Consolidation
Spring	Number **Place value (within 20)**			Number **Addition and subtraction (within 20)**			Number **Place value (within 50)**		Measurement **Length and height**		Measurement **Mass and volume**	
Summer	Number **Multiplication and division**			Number **Fractions**	Geometry **Position and direction**		Number **Place value (within 100)**		Measurement **Money**	Measurement **Time**		Consolidation

The following slides have some examples of how we teach maths in a fun and practical way.

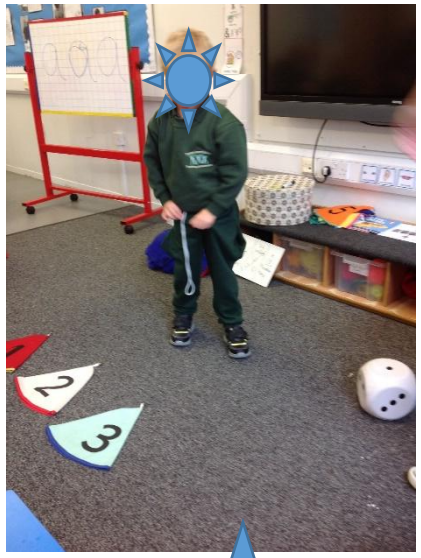


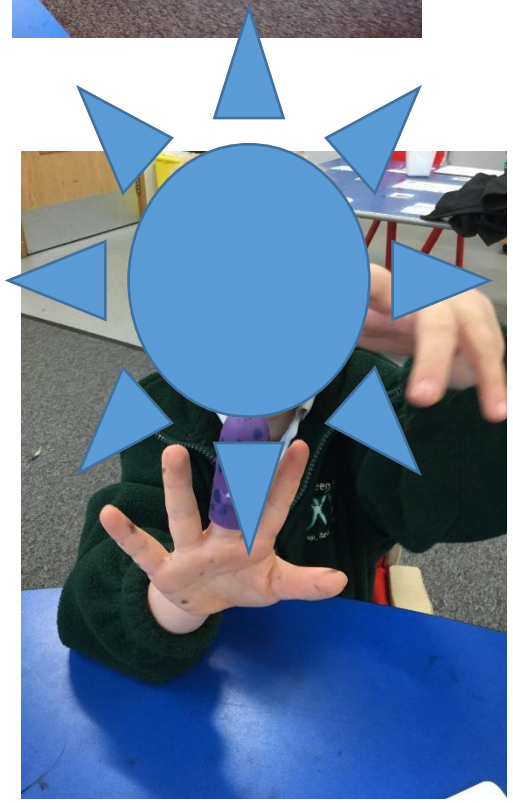
Independent learning opportunities to put the learning into practice



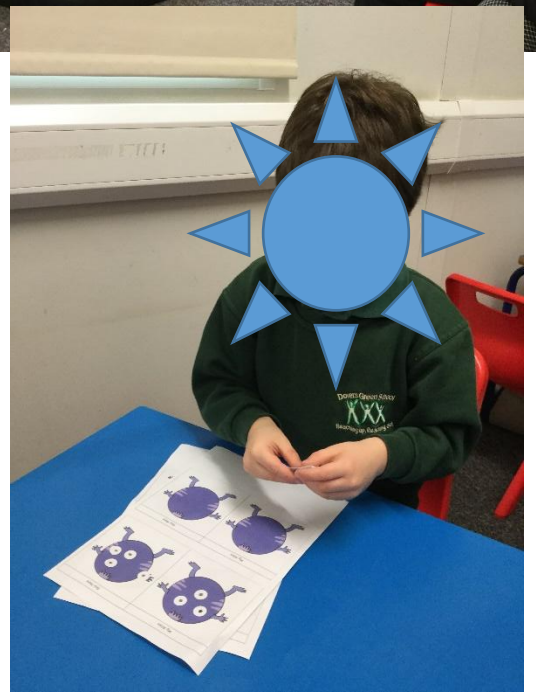


Sorting and classifying

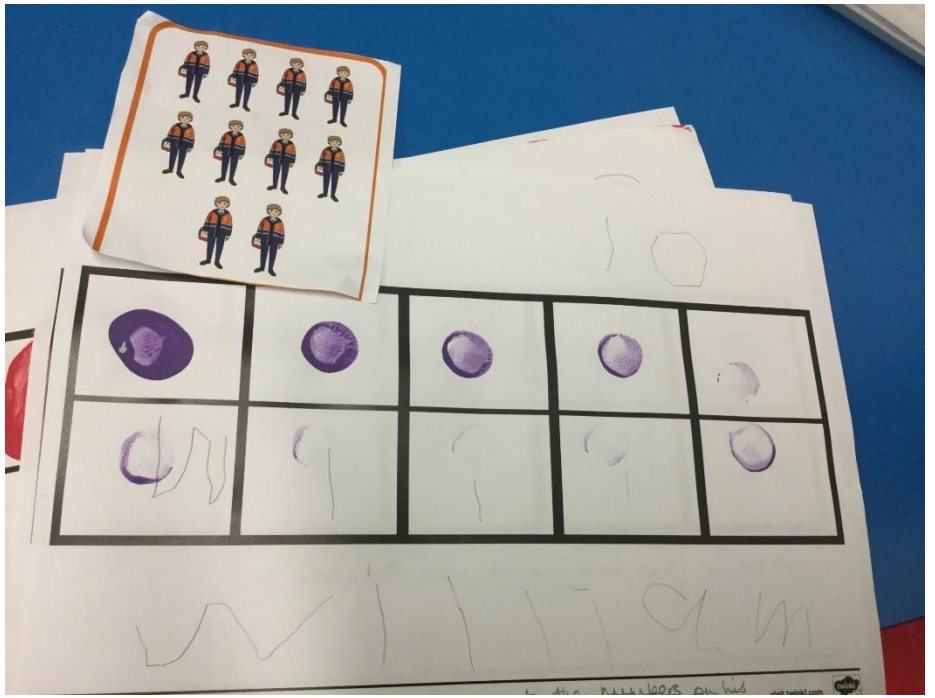




Recognising numbers, counting items and objects, 1 more and 1 less



Using concrete items as children move into Year 1 and beyond- subtraction, using 10 frames, patterns, problem solving……..



What you can do to support your child in their maths learning at home.

- Supporting children in maths can start at an early age, with introduction of songs and rhymes, including numbers that count forwards, "1, 2, 3, 4, 5, once I caught a fish alive." And songs that count backwards, "Five currant buns, or five speckled frogs." This supports children in not only naming numbers but also learning the patterns of numbers. You can also count in twos, e.g. "the animals went in two by two" or "two little dickie birds."
- Toys can also support children's learning of maths, using blocks to build towers or counting them in a line. Parents can also use a child's interest to count, e.g. if your child enjoys playing with animals or cars, they can be lined up and counted in sequence. Children are able to use memory and reconciliation to understand order and patterns that can be created by counting.
- Maths games can be played when spending time with your child in different environments. When shopping, for example, with your child, ask if they can see any shapes around them, like an apple in the shape of a circle or a box of tea bags in the shape of a square. Pick out two products and ask your child which weighs more or less and to identify numbers around them, e.g. prices or aisle numbers.
- Children can also identify shapes within their environment, e.g. walking through parks or woods, measuring shadows against one another, identifying shapes in buildings or what children see around them. Looking at buildings and noticing square windows or a rectangular door for example.
- Baking and cooking at home involves counting, measuring and weighing ingredients and getting children to take part in mixing and distributing into different containers are maths activities. When baking, children notice patterns – adding a mixture to numerous bun cases or adding food in a certain way to a bowl or container. Shapes can also play a role in cooking, by getting children to identify shapes of containers or utensils (bun or cake tins).

https://daisychainchildcare.com/blog/maths-in-early-years-how-to-support-children-at-home/#:~:text=Supporting%20children%20in%20maths%20can,only%20naming%20numbers%20but%20also

Home learning

All of our home learning lessons for early years through to Year 11 are available now. Every lesson comes with a short video showing you clearly and simply how to help your child complete the activity successfully.

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https://whiteroseeducation.com/parent-pupil-resources/maths/home-learning?year=year-1-new

Useful Websites

https://mathsnoproblem.com/en/approach/concrete-pictorial-abstract/

https://whiterosemaths.com/

https://www.topmarks.co.uk/maths-games/5-7-years/counting

https://www.bbc.co.uk/cbeebies/topics/numeracy

https://www.bbc.co.uk/cbeebies/search?q=numberblocks+

https://www.youtube.com/channel/UCVcQH8A634mauPrGbWs7QlQ

Thank you for watching this presentation.