



F2 Progression in Maths

EYFS F2 Progression in Maths 2021

This document shows the White Rose Schemes of Learning for the F2.

# F2 Whole Year Overview

T E R M 1	Getting to Know You			Just Like Mel			lt's	lt's Me 1 2 3!		Light and Dark			Consolidation		
TERM Z	Alive in 5!				rowir 6, 7,8	-		Building 9 and 10		Consolidation		on			
IERM 3	To 20 and Beyond			Fi	rst Th Now	en	Find My Pattern			On <u>The</u> Move					
CIPLES	;						Child	Iren will so	ometimes c	count obje	cts more t	han once o	r miss an c	bject out 1	

each object only once ensuring they have counted every object.	grasped one-one correspondence.
2 The stable-order principle. Children understand when counting, the numbers have to be said in a certain order.	Children need to know all the number names for the amount in the group they a re counting. Teachers can therefore encourage children to count aloud to larger numbers without expecting them to count that number of objects immediately.
3 The cardinal principle. Children understand that the number name assigned to the final object in a group is the total number of objects in that group.	In order to grasp this principle, children need to understand the one-one and stable- order principle. After counting a group of objects and asking 'how many?', children should be able to recall the final number they said. Children who have not grasped this principle will recount the whole group again.
The abstraction principle. This involves children understanding that anything can be counted including things that cannot be touched including sounds and movements e.g. jumps.	When starting to count, many children rely on touching the objects in order to count accurately. Teachers can encourage abstraction on a daily basis by counting claps or clicks. They can also count imaginary objects in their head to encourage counting on, this involves the children visualising objects.
5 The order-irrelevance principle. This involves children understanding that the order we count a group of objects is irrelevant. There will still be the same number.	Encourage children to count objects, left to right, right to left, top to bottom and bottom to top. Once children have counted a group, move the objects and ask children how many there are, if they count them all again they have not fully grasped this principle.

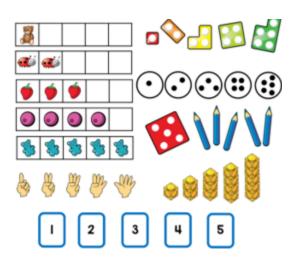




# F2 Autumn Overview

Week Week W 1 2	'eek 3	Wee k 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Getting to Kno You	OW Phase	Ju	Just Like Me!		lt's Me 1 2 3!		Light and Dark			
Opportunities for settling in, introduc the areas of provis and getting to know children.	ing ion	Cor	ich and S npare ounts	ort	Com	esenting 1 paring 1, sition of <sup>2</sup>	2&3		senting N to 5. More and	
Key times of day, c routines. Exploring continuous provisi inside and out. Whe do things belong Positional languag	the Pattern on And are Measures ?		re Size, M Capacity Explorin Pattern	/ 9		s and Tria	-	Shap	es with 4 Time	Sides.

F2 Autumn Representations







Maths

Maths



**Key questions** 

Feely bag

cases?

Enhancements to

areas of learning

Which ball has more dough? How do you know? Can you balance this ball of dough?

What else weighs the same as your ball of dough. How many spoons of sugar balance the egg? How can we share the mixture fairly between the

Put a selection of number shapes into a feely bag Show the children a number shape and challenge

them to put their hand into the bag to find one that is

larger than yours, smaller than yours or exactly the same as yours.

Can you find more than one shape which is larger?

Can you find more than one shape which is smaller? Ask the children to sort the shapes into larger than yours, the same as yours and smaller than yours.

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## Compare size, mass & capacity

# Modelling

Ask the children to create homes or containers for different sized soft toys or small world creatures. What size and shape will they need for an elephant? A giraffe? A mouse? Can their friends guess who is inside

## Sand and Water

Provide equipment in 2 distinct sizes. For example, a big bucket and a little bucket, a tall jug and a short jug. Encourage the children to compare the objects and to explore how many scoops each will hold. They could also count how many large scoops and how many small scoops a container will hold.

## Make simple patterns

#### Guidance

Children copy, continue and create their own simple repeating patterns. It is important to provide patterns with at least three full units of repeat. Encourage the children to say the pattern aloud as this helps them to identify the part which repeats and supports them to continue the pattern.

The children should be given opportunities to explore AB patterns in a range of contexts including shapes, colours, sizes, actions and sounds. Encourage them to build patterns both vertically and horizontally



In and Out the Dusty Bluebells circle game Tongue twister patterns - Red lorry, yellow lorry Clap your hands and wiggle your fingers song

## Digging deeper

Spot my mistake Show the children patterns which have a deliberate



Ask the children to suggest ways to sort out the problem. They might swap the items around which means they will need to communication of the line. means they will need to continue amending the



Read We're Going on a Bear Hunt by Michael Rosen. Encourage the children to build their own bear hunt journeys using the outside equipment. Repeat the patterned language from the story as they travel through their journey. They might like to invent word patterns of their own. You can also reinforce the positional language of over, under and through.

Reception - Autumn Phase 2 - 123

#### • == 🛃 Comparing 123

#### Guidance

Children begin to understand that as we count, each number is one more than the number before. Similarly as we count back, each number is one less than the previous number. Use a range of representations to support this understanding and encourage the children to represent the one more and one less patterns as they count.

Support the children to make comparisons in different contexts as they play.



The Three Bears The Three Little Pigs

The Little Bear and the Wish Fish - Debi Glion When Goldilocks Went to the House of the Bears song

Pink Tiara Cookies for Three - Maria Dismondy

#### Outside

Enhancements to

areas of learning

Set up an area where the children can dig and provide large and small spades and garden trowels. You can also provide different sized containers for the children to fill and empty. Which containers are the easiest to carry? Wheelbarrows



Encourage the children to build using long and short blocks. Which type of blocks will they choose for their models? Is it easier to build a road using long or short blocks? Can they build a long road and a short road, a tall tower and a short tower. Which type of block will balance on its end most easily?

### Prompts for Learning

Demonstrate simple AB action patterns such as Knees, clap, knees, clap, knees, clap Head, shoulders, head, shoulders, head, shoulders Hands up, hands down, up, down, up, down

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Say the pattern aloud and encourage the children to join in with you and to suggest new action patterns of their own.

Word or sound patterns can be chanted together, opposites



Create simple patterns such as red brick, green brick, red brick, green brick, red brick, green brick for the children to copy and continue. Challenge them to create their own repeating patterns using the AB structure

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#### **Key questions**

Sav the pattern. What do you notice? Is this pattern correct? How could we try to sort it out? Does it work now? Which instrument did you hear? Can you make the same sound pattern? Can you make a different sound pattern?

## What's my pattern?

Provide a range of different instruments such as drums, beaters, shakers and encourage the children to play and copy simple patterns. This could be made into a game with one child playing a pattern whilst the rest face the other way and lister The listeners then try and work out which instrument was used and try to replicate the pattern.



# Prompts for Learning

Use stories and number songs which count on and back to introduce the one more and one less patterns Represent the patterns using bricks or cubes to supp the understanding that each number is one more/less than the number before.

Using a range of real objects in different contexts ask the children to compare sets. Which set has more? Fewer?

Can you find 2 sets with the same amount? لے 👀 💾 💾

The dot plates can also compared and ordered. Ask: How many dots does this plate have? Can you find a plate with more dots? With fewer dots? With the same number of dots? .  $\odot$ Can you put these 3 plates in order

What would come next? Ask the children to compare how far they can travel in 3

giant steps and in 1 or 2. In 1, 2 and 3 tiptoes C White Ros

# **Digging deeper**



Add a set of balance scales to the dough area. Encourage the children to compare the mass of different sized balls of dough. Can they use the balance scales to help them create equal balls of dough? How will they know when the balls are equal?



Ask the children to measure out the ingredients for making cupcakes using one egg to balance quantities of sugar, butter and flour in turn. Mix the ingredients together, add to bun cases and bake for 15 minutes.

# Make simple patterns

#### Snack

Provide a selection of fruit cut into small pieces. Encourage the children to make an edible repeating pattern before they eat their snack. They might even like to build a fruit kebab.



Maths area

Use resources such as number shapes. dice, cubes, counters, peg boards etc. Ask the children to create their own repeating patterns. Can their friends copy and continue their patterns?



# Reception - Autumn Phase 2 - 123

Representing 123

#### Guidance

Children identify representations of 1, 2 and 3. They subitise or count to find how many and make their ow collections of 1, 2 and 3 objects. They match the collections of 1,2 and 3 objects. They match the number names we say to numerals and quantities. They count up to three objects in different arrangements by touching each object as they count and recognise that the final number they say names the quantity of the set.

They use their own mark-making to represent 1, 2 and 3 for example to record their score during a game

#### Other Resources



I'm Number One - Michael Ros One Bear at Bedtime - Mick Inkpen

#### Reception - Autumn Phase 2 - 123

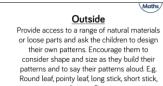
Composition of 123 

#### Guidance

Introduce children to the idea that all numbers are made up of smaller numbers. Allow them to explore and notice the different compositions of 2 and 3. For example 3 can be composed of 1 and 1 and 1 or 2 and 1 or 1 and 2. Although we are focusing here on numbers to 3 the children may choose to notice and explore the composition of larger numbers in their play. Encourage them to share what they have noticed.

# Other Resources

BBC Number blocks 1.2 and 3 The Three Billy Goats Gruff Number Farm - Stephen Holmes





#### Construction Ask the children to build towers or enclosures





#### **Prompts for Learning**

Prepare a set of dot plates or cards which have 1,2 or 3 dots in different arrangements. Hold up the plates and ask the children how many dots. The children could match plates to the numerals 1,2 and 3





Ask the children to count out 1.2 or 3 objects from a large group. For example, we are going to play a game. You v each need 3 beanbags.

Don't forget to count sounds and movements too. Use a drum to sound beats to count or ask the children to do 2 claps, 3 jumps, 1 twirl etc.



tave 3 small word animals such as horses or cows and 2 elds. Ask the children how many animals could go in each field. Can they find different ways to do this? What if they had 1 or 2 animals? fields. Ask

in a small group ask each child to court of source sided counters. Shake them in their hand and then drop them down. How many are red? How many are yellow? Can they get all red? All yellow?



Use the number shapes to investigate which smaller numbers combine to make 1, 2 and 3 Check by sitting them on top of the whole number.

Play Bunny Ears Using 2 hands to be the ears, how many ways can you show 1, 2 and 3? Can you see what number I have made? Can you make ears the same as mine? Can you make the same number in a different way?





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Prompts for Learning

Show the children a variety of circles and triangles in

different sizes and orientations.

what they notice. Are the sides straight or curved? Can they see another shape like this? What if we turn it around, is it still the same shape? Can they find a different shape? Why is it different?

Show the children a picture which has been made of different shapes. Eg, a boat, a rocket, a house. What shapes can you see in the picture?

How many triangles can you count?

Can you make your own picture using the shapes

Go on a shape hunt. Where can you see circles and

triangles on the surface of everyday objects?

Look at shapes in art such as Kadinsky's Concentric

Circles or Stained in Triangle. Ask the children to discuss the images. How many shapes can they see?

Provide each child with a set of identical items such

as 3 cubes of different colours. Hide your cubes from the children using a barrier and

describe how you arrange your set. For example put

the green cube under the red cube. Put the vellow cube on top of the red cube. Now check. Does your tower match mine? Extend the use of language to include next to, beside, between, above, below.

Encourage the children to take turns in leading the

Which cube is between the green and the yellow

Can you find more than one way to tell me where the

**Prompts for Learning** 

Note: All the prompts for counting to three and four can be applied to counting to five, plus these extra ideas.

Can we count to five on our fingers? Can we count back from 5?

Ask the children to show numbers to 5 using their fingers. Is there more than one way? As they become more confident encourage them to do this without counting.

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Read Kipper's Birthday. How old is Kipper? How do we know

game and continue the game in provision be extended by adding 1 or 2 more cubes

Does your tower look just like mine? Where should this cube be?

Key questions

cube?

green cube is?

Make my match

Choose one of the shapes. Ask the children to tell you

# **Digging Deeper**

# How many inside?

Place 1.2 or 3 items into a feely ba Ask the children to feel inside the bag and try to count how many there are without looking. Count the items out to check.

# Hidden objects 😽 😽

With the children count out 1, 2 or 3 items and then use a cloth or a bowl to hide them. Can the children use their fingers to show you how many e hidden?

Ask the children to watch as you add one more item to the hidden group. How many will be hidden now? What if you take one out?

#### Reception - Autumn Phase 2 - Geometry and Spatial Thinking

### Spatial awareness

Guidance

Children hear and begin to use positional language to describe how items are positioned in relation to other items.

They build life-sized journeys outdoors and travel through them, exploring them from different perspectives. They begin to represent real places they have visited or

places in stories with their models, drawings or maps.

#### Other Resources

We're Going on a Bear Hunt - Michael Rosen Rosie's Walk - Pat Hutchins Little Red Riding Hood - Traditional Tale Mrs Wishy-Washy - Joy Cowling Me on a Map - Joan Sweeney Song: In and Out the Dusty Bluebells

#### Reception - Autumn Phase 3 - Numbers to 5

## Four

#### Guidance

Children count on and back to 4. They count or subitise sets of up to 4 objects to find how many and make their own collections of objects. They match the number names to numerals and quantities and are able to say which sets have more and which have fewer items. When counting, they continue to learn that the final number they say names the quantity of the set. They use their own mark-making to represent numbers

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#### \*\*\*\*\* to 4. <u>፝</u> Other Resources

Pete the Cat and his 4 Groovy Buttons - Eric Litwin Witches Four - Marc Brown Washing Line - Jez Alborough Anno's Counting Book - Mitsumasa Anno

Reception - Autumn Phase 3 - Numbers to 5

## **Digging Deeper**

#### **Build and count**

Provide children with 5 separate connecting blocks. Encourage them to join their blocks to build a tower and then to explore other shapes they could build with 5 blocks. How many different ways can they find to join their blocks?

The children may build the same shape in different orientations so encourage them to turn their shapes around to check that they are not the same as another shape.

Ask the children to explore different shapes they could build using 2, 3 and 4 blocks

There is just one way with 2 blocks 2 ways with 3 blocks, a few with 4 blocks and many with 5 blocks. Numberblocks Series 1 Episode 11 Stampolines also looks at different ways to arrange up to 5 blocks. These tasks challenges the children to count unseen objects and to visualize one more and one less within 3. The children may use their fingers to help them predict what one more or one less will be. They could also use their own mark-making to represent the hidden objects.

You could vary the task by dropping pebbles into a bucket or pennies into a cup. Encourage the children to count the sounds. Ask them to predict how many there will be if you take one out or add one more and then count together to check.

#### Key questions

How many objects can you feel in the bag? How many bebles did I put in? If I add one more how many will there be? If I take one out how many will there be? How many are in the bag/bucket now? How do you know? How can we check?

# **Prompts for Learning**

Positional language can be modelled and pract ed on a daily basis with the children through their play. Tidy-up time in particular is full of opportunities to use positional language for a real purpose. E.g. Put the bricks into the basket. Sit teddy on the shelf next to the books.



Many stories focus on positional language or journeys. Encourage the children to use actions to represent the Language such as over, under, around, through as you read. Children could also build models of the story journeys and real life journeys they have made to include the places



Outside the children can build large-scale representations of places and journeys.



Prompts for Learning Note: All the prompts for counting to three can be applied to counting to four, plus these extra ideas.

e a basket of something interesting to count. Ask the children to count out 4 items and arrange them on a whiteboard.

How many are there altogether? Does your 4 look the same as mine? Can you make yours look the same as mine? Can you make yours look the same as mine? Can you arrange your 4 in a different pattern to mine? What smaller groups can you see in your 4?

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Arrange 4 items on a 5 frame - what do you notice? mpt the children to notice that 4 is one less than 5 so there will always be one empty space.

Circle game. Everybody stand up. Count round the circle 1, 2, 3, 4 1, 2, 3, 4, 1, 2, 3, 4, etc. The person who says 4 sits down each time Continue to count round the circle until three is only one person remaining. You can also count back 4, 3, 2, 1 and sit down on 1



# Key questions

How many blocks are there? Can you build them into a different shape? Can you find another shape like yours? Can you make a shape different to all the others? How many shapes can you build with 3 blocks? Are there more shapes with 4 blocks or 5 blocks? How many different shapes do you think there will be with 6 blocks?

Can you create your own stampoline prints?



selection of the shapes into a feely bag. Can the children find a 4 shape without looking? How did they know it was 4? If it is not 4, why not?

Reception – Autumn Phase 2 – Geometry and Spatial Thinking

## **Circles and Triangles**

#### Guidance

Children learn that circles have one curved side and triangles have 3 straight sides. They begin to recognise these shapes on everyday items in the classroom and outside. Encourage the children to build their own circles and triangles t is important to show a variety of different sized circles and triangles in different orientations and with sides of different lengths.

#### Other Resources

Circle - Mac Barnett and Jon Klassen Triangle - Mac Barnett and Jon Klassen The Mr Men Books - Roger Hargreaves Three Little Firefighters – Stuart J Murphy Round is the Moon Cake - Roseanne Thong My Hat, It has 3 Corners song

Reception - Autumn Phase 2 - Geometry and Spatial Thinking

# **Digging Deeper Treasure Hunt**

Set up a treasure hunt in your outdoor space by Set up a treasment of in in your borbor borbor space by providing a series of pictorial clues. As the children go to each place in the pictures, they can hunt for the next clue. Prompt them to use positional language to explain Where they need to go. Hide some 'treasure' in the last place – this could be a special snack, a new story to read or resource for the classroom.



The children might like to continue this by designing their own treasure hunts and hiding pictorial clues for their friends to follow.

eception – Autumn Phase 3 – Numbers to 5

# Five

#### Guidance

Children continue to subitise up to 5 items and to count forwards, and backwards, accurately using the counting principles. They represent up to five objects on a five frame and understand that if the frame is full then there are five. This is a good opportunity to link to birthdays as

children will soon be five. Five is also the focus of many number songs and rhymes.

## Other Resources

Kipper's Birthday – Mick Inkpen 5 Little Fiends – Sarah Dyer Five Little Men in a Flying Saucer - Dan Crisp 5 Small Stars - Ladybird Five Currant Buns Five Little Monkeys One Elephant Went Out to Play

# Reception - Autumn Phase 3 - Numbers to 5 One more and one less

Guidance

or take one away. Prompt children to see the link

between counting forwards and the one more pattern and counting back and the one less pattern. There are many books and rhymes to support one more and one less.

Other Resources

The Gingerbread Man- Traditional Tale The Enormous Turnip- Traditional Tale The Very Hungry Caterpillar- Eric Carle Stella to Earth! - Simon Puttock

Five Little Ducks

Five little speckled frogs

Five cu . Irrant buns 00

How many burs are there altogether? Put the penny in the pot, how many pennies do we have? How many burs do we have now? Repeat the song and questions. Encourage the children to notice that there is one less bur each time, but one more penny.

The Gingerbread Man and as you read, represent the grow n of characters using counters or cubes. Can the children more pattern building? Can they predict what will come What will happen when the gingerbread man is eaten?

088 Ask children to make a number on a five fram **Ý Ý Ý** 

Can you show me one more? One less? Use a 1-5 number track underneath the five frame. Can you point to the number you made? Can you point to one more and one less than your number? © White Rose Mathr





Have a feely bag filled with cubes. Ask the children to predict how many cubes you can collect in one handful. Grab a handful and hen lay them down one by one so the children can see how many. Ask who else would like to try (can they hold the same as you? Try again. Do they get the same amount each time?

Fill five frames with a variety of objects. How many do we have? How do we know there are five without counting?  $\begin{array}{c} @ @ @ @ @ @ @ @ @ @ \\ @ @ @ @ @ @ @ & \\ \end{array}$ 

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Phase 3 - Numbers to 5

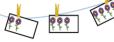
# **Digging Deeper**

#### Washing line

Provide children with pictures of objects to arrange on the washing line in order. As the children orde on the washing the in order. As the unionen order the pictures encourage them to use the language of one more and one less. What can you tell me about 3? Prompt the children to see that 3 is one more than

2 and also one less than 4. Hide one of the cards and ask the children to work out which number is missing.

What strategies will they use to work out which number is missing?



Reception - Autumn Phase 3 - Geometry and Spatial Thinking

# **Digging Deeper**

#### **Combining shapes**

Ask the children to investigate which shapes they can make by combining squares, rectangles and triangles in different ways.



Can you build a small square, a medium square and a large square? You could draw outlines for the children to fill initially.

What shapes did you use to make your squares? Is there a different way to build the same shape?

Can you build a square using rectangles? How do you know it is square? Can you build a rectangle using squares? How do you know it is a rectangle?

Reception - Autumn Phase 3 - Measurement - Time

# **Digging Deeper**

# **Obstacle Course**

Make an obstacle course in the outdoor area What do we do first? What comes next? Can we make picture cards to explain the instructions to other children?

Use a timer to measure how long it takes each child to complete the obstacle course. How will we know if we get faster at completing the course? Will the number of minutes go up or down?

How can we work out who comes first? Can we count aloud to measure how long it take us to complete the course?

Encourage the children to make their own obstacle courses that take a longer or a shorter time.

Key questions

Key questions

Can you find 1 more than 3?

How many are in the bag?

Hidden objects

inside the bag

What shapes can you build? Is there more than one way to make this shape? What shapes can you make by joining 2 squares? By joining 2 rectangles? 2 triangles? Can you fill this shape leaving no gaps?

# Matchstick shapes

Use matchsticks to build squares and rectangles What is the smallest square you can make? How many matchsticks did you use? What is the largest? Can you count all of the matchsticks you used?

What is the smallest number of matchsticks needed to build a rectangle?

Set up some mini goal posts. Ask the children to score as many goals as they can before the timer one bean bag and take it back to their bucket. At the end of the time ask each child to court their bean bags. How many goals did they score? Repeat the activity - if the children want to score more goals will they need to work more quickly or more slowly? Count up again – did they beat their score?

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## Key questions

Goal! 

What do we need to do first? What do I do next/after that/then? How many minutes did you take? Who was the fastest? Did they take more minutes or less minutes than you? How many goals did you score? How could you score more goals this time?

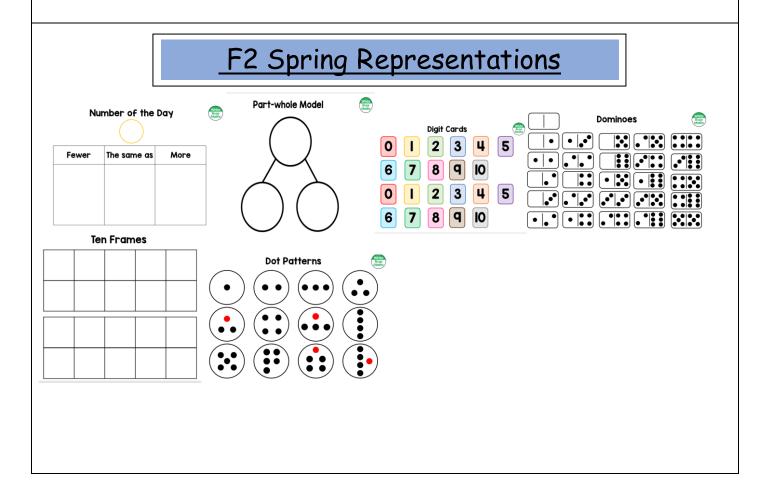
**Maths Progression** White Rese Maths Reception - Autumn Phase 3 - Geometry and Spatial Thinking White Rese Maths Shapes with 4 sides Prompts for Learning Show the children a variety of squares and rectangles in different sizes and orientations. Guidance Where will you place this on the washing line? Choose one of the shapes. Ask the children to tell you Children learn that squares and rectangles have 4 straight sides and 4 corners. They begin to recognise Can you find a picture with 1 less than mine? Can you find a picture that is 1 more than .... but 1 less than ....? what they notice. How many corners can they see? What if we turn it around, is it still the same shape? Compare a square and a rectangle. What is the same? these shapes on everyday items in the classroom and outside. Encourage the children to build their own squares and rectangles it is important to show squares and rectangles in a variety of different sizes and orientations. Can they spot any other shapes with If I add 1 more, how many will there be now? What is different? 💛 🗖 🗕 8 4 straight sides. Show the children pictures of buildings or street scenes. s: In mathematics, squares are classed as special rectangles with 4 equal sides) (Note for teachers: In mat With the children count 4 items into a bag. What shapes can you see in the picture? Ask the children to confirm how many there are How many squares and rectangles can you count? Can you make your own pictures using squares and Put in one more or take one out. How many are in the bag now? Other Resources rectangles? Once the children are confident in predicting 1 more Square - Mac Barnett and Jon Klassen and less, this can be extended to adding 2 or 3 more Go on a shape hunt. Where do you see squares and Mr Strong - Roger Hargreaves How many different squares and outside? For less, Encourage the children to use their fingers or 5 frames to represent the hidden objects. Bear in a Square – Della Blackstone Number blocks Series 1 Episode 6 - Four O White R Reception - Autumn Phase 3 - Measurement - Time Rose Maths Night and Day  $\star$ **Prompts for Learning** Make a visual timetable of the important events in the school day. Order the events each day and talk about what Guidance we are doing 'now', 'next' and 'later'. Children talk about night and day and order key Refer back to the timetable throughout the day, asking the children questions relating to it. What are we doing now? What are we going to do next? What are we doing this afternoon? events in their daily routines. They use language to describe when events happen e.g. day, night, morning, afternoon, before, after, today, tomorrow. Children begin to measure time in simple ways e.g. counting the number of sleeps to an important event or using timers to measure durations of events. Sing songs to sequence the days of the week – which days do we come to school and which do we stay at home? Use a class calendar to introduce time durations and think about 'how many sleeps' there are to important events Songs and Stories Use stories and non-fiction books to introduce the idea of Use stories and non-fiction books to introduce the local and included in the second animals and explain that as we go to sleep, some animals are waking up and come out at night. Fox in the Dark - Alison Green Peace at last - Jill Murphy Kipper's Monster - Mick Inkgen Day Monkey, Night Monkey - Julia Donaldson The Dark, Dark Tale - Ruth Brown Use pictures to order familiar activities and stories usi key language to describe the sequence e.g. making pancakes, getting ready for bed, retelling a story. Funnybones – Janet & Allen Allberg Days of the week song C White Rose Maths





# F2 Spring Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	
Phase	A	live in S	5!	Gro	wing 6,	7, 8	Building 9 & 10			
Number	Compar	oducing z ring numb position of	ers to 5		6, 7 & 8 laking pai bining 2 g			9 & 10 ing numb Sonds to 1		
Measure, Shape and Spatial Thinking		apare Mas are Capac		Ler	ngth & Hei Time	ight	3D-shape Pattern (2)			







#### F2 Spring Scheme of Work Reception - Spring Phase 4 - Alive in 5 Maths White Rose Maths Introducing Zero Maths Area Introducing Zero **Prompts for Learning** Provide a range of loose parts and labelled pots Outdoors Use popular counting back songs such as 5 Little Monkeys including 0 for the children to count items into. Use popular counting back songs such as 5 Little Monkeys Jumping on the Bed. Encourage children to take on the role of the 5 monkeys. Represent each verse with counters on a 5 frame, displaying the numerals alongside. Ask them to predict how many monkeys will be left as each one fails off the bed. What about the last monkey? How could we show this on our 5 frame? Which numeral should we use? Picture cards and dot plates to represent Provide equipment for throwing and Guidance Guidance The children will already have some practical understanding of 'nothing there' or 'all gone'. Here, they learn that the number name **zero** and the numeral **0** can be used to represent this idea. The children should be given opportunities to apply this understanding within the classroom. E.g. There are 0 children playing in the sand. Number songs which count back help to develop the understanding that 0 is one less than one rolling games such as skittles, different quantities including zero can also be nbags and buckets. Encourage the sorted and matched to numerals. children to notice when they knock over 0 skittles or when 0 beanbags Ì 0 2 👌 🔊 🛛 Provide examples contrasting familiar numbers with 0 to opport the children's understanding that 0 represents the basence of something. How many apples on each tree? ow many people on each bus? Which field has 0 horses? Enhancements to land inside the bucket. How could they record their score? areas of learning understanding that 0 is one less than one. Small World Outdoors As the children play, prompt them to notice Have a bag containing numerals from 0 to 5. As you pull out a numeral combine it with a Other Resources where they see 0 Numberblocks Series 3 Episode 5: Zero ¥9 🚎 💭 🚣 📖 .g. Could we park 0 cars in this car park? task for the children to do. For example, if you $\bigcirc$ None the Number - Oliver Jeffers pull out a 2, the children could take 2 giant If there are 5 horses and 2 fields, how many horses could be in each field? If all 5 monkeys have fallen off the bed, how Zero is the Leaves on the Tree - Betsy Franco strides or 2 tiptoes, do 2 jumps, run to the Encourage the children to represent numbers including O hoop and back twice, find 2 pebbles and Alice the Camel Show me 3 fingers, show me 5, show me 0 many are left on the bed? bring them back etc. Show me 4 apples in the basket, show me 2, show me 0 10 in the Bed Show me 4 claps, 1 clap, 0 claps. C White Rose Ma Reception - Spring Phase 4 - Alive in 5! Reception - Spring Phase 4 - Alive in 5! White Rose Maths Rese Maths Maths Area Comparing Numbers to 5 **Prompts for Learning** Comparing Numbers to 5 Children use the number shapes, linking Show the children 3 fingers - ask them how many fingers? Can they hold up 37 Can they hold up core than 3 fingers? Is there more than one way to do this? Can they hold up fever than 3 fingers? How many do they have? cubes and numeral cards to match and Guidance compare quantities. Sand Children continue to understand that when comparing numbers, one quantity can be more than, the same as or fewer than another quantity. Provide a set of dominoes to explore. Ask Make towers of pebbles. Who can make the tallest tower? the children to compare the number of spots on each side of the domino. Are How many pebbles are in each tower? , there the same, more or fewer dots? Use a range of representations to support this Working with a small group, provide each child with a plate and give them each a handful of snark such as grapes or crackers. Does everyone have the same? Is it fair? Encourage them to notice that some children have more snack and some have less and to share out the snack fairly. Can they check that everyone now has the same? Does your tower have more or less pebbles than your friend's tower? understanding and encourage the children to compare quantities using a variety of objects and representations Support the children to make comparisons in different contexts as they play. Enhancements to Can you each make a tower using the same number of pebbles? areas of learning Carpet Small world 🛞 🛞 2 III III III **Other Resources** Provide a set of dot plates with different arrangements of 0-5 dots. Provide opportunities to compare smaller quantities of large items with larger quantities of small items to help children make the distinction between size and quantity. Eg. 2 large balls take up more space than 3 small balls but there are more small balls. A Squash and a Squeeze - Julia Donaldson 1 - 5 on cards and various small similar Can you find a plate with 4 dots? Room on the Broom - Julia Donaldson items such as people, toy cars, plastic With more/fewer than 4 dots? Can you put the plates in order? One Elephant Came Out to Play animals, etc. Ask them to show you fewer, the same or more than the number they choose. 5 Little Monkeys Swinging in a Tree One of the plates is missing Can you work out which one? @ White Rose Maths C White Rose Math Reception - Spring Phase 4 - Alive in 5! White Rose Maths Rose Maths Composition of 4 and 5 Number Shapes Composition of 4 and 5 **Prompts for Learning** Use the number sha apes to Give the children 5 bean bags. Ask them to throw them into a investigate which smaller numbers combine to Water hoop noticing how many land inside the hoop and how many Guidance Set up a log and pool and provide 5 speckled frogs for the children to make exactly 4 or 5. Check by sitting them on land outside. Encourage them to record their results. Is there ever 0 inside or outside the hoop? Wee Children will continue to develop the understanding that all numbers are made up of smaller numbers. Allow them to explore and notice the different compositions of 4 and 5. For example 5 can be composed of 1 and 1 and 3 or 2 and 3 or 1 and 4. top of the whole number. Is there more than one combination? re-enact the song. Encourage the children to Ask the children to count out 5 double-sided counters. Shake and drop them onto the table. How many are red? How many are yellow? Look at your partners. Is it the same? Drop them again. What has changed? sing the song as they play and to count how many frogs are on the log and in the pool a Which number has the most combinations? 금 🔛 the end of each verse ••\* Enhancements to Could you show your counters on a 5 frame? If you had 5 red counters, how many yellow would there be? Butter beans with one side painted are an alternative to doubl sided counters and are easily manipulated by little fingers.) areas of learning Encourage them to subitise (instantly recognise these Outdoors small quantities without counting). Provide 4 children with 2 hoops labelled Construction Encourage them to notice how numbers can be yes and no. nposed of 2 parts or more than 2 parts Provide cubes in 2 different colours. Ask the children to build a tower of 5. Children take turns to ask questions and Play **Burny Ears** Using 2 hands to be the ears, how many ways can you show 4 or 5 fingers? Can you see what number I have made? Can you make ethe same a mine? Can you make the same number in a different way? sort themselves into the hoops. For Other Resources 0 Compare the towers example: Do you like carrots? What is the same? What is different? Number Blocks - The Whole of Me Have you got a sister? . The Ugly Five - Julia Donaldson How many different towers can you build? Can you find a question which sorts the children into 4 and 0? What if you make towers of 4 cubes? I Spy Numbers - Jean Marzello 5 Friends Counting - Oxford Owls How many different ways can we find? 11



White Rose Maths



**Prompts for Learning** 

Bring in a heavy case or box. Show the children that it is difficult to lift and carry because it is really heavy. Ask if they have ever carried anything heavy? Ask the children to discuss what could be inside.

Ask the children to be human balance scales - place an

item on each hand and ask them to tip to show which item is heavier and which is lighter. Use the balance scales to check the children's estimations. The children could also

hold buckets or bags in each hand and place items inside to feel which has the stronger downward pull.

Give the children an item, for example, an apple. Challenge them to find things which feel heavier and lighter than the apple and sort them into sets.

Use the balance scales to check their estimation

Are all the heavier things larger than the apple? Can they find anything which is larger than the apple but lighter?

**Prompts for Learning** 

In a small group perhaps during snack time, provide each

child with a cup. Ask them to make their cup full, make it empty, nearly full, nearly empty, about half full. Can they

find a container which holds more than their cup? Can they

find one which holds less?

Provide a selection of containers of different shapes and sizes and ask the children to investigate which holds the most. They may do this by pouring directly from one

container to another. They could also use a small cup to fill

each container, counting how many small cup-fulls the containers hold. Encourage them to record their results using their own methods of recording.

Provide sets of similar containers in different sizes such as sets of nesting bowls or boxes. The children will enjoy

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Reception - Spring P e 4 - Alive in 5!

# **Digging Deeper**

## How Many are Hidden? 🛸

Show the children 4 or 5 small world creatures. Ask them to close their eyes whilst you cover some with a blue cloth to resemble a pool. Can they work out how nany of the ducks you have put into the 'pool'?

Practise in different contexts for example teddies and a tent', horses and a 'stable' cars and a 'garage'. Encourage children to use concrete objects, draw a picture or use their fingers to help them explain how they know what is

# **Exploring Possibilities**

Show the children an empty feely bag. Together, count 4 pebbles into the bag. Take out an unseen amount in your hand. Ask the children to discuss how many **could** be in your hand and how many could be left in the bag

#### Reception - Spring Phase 4 - Alive in 5!



Dough Add a set of balance scales to the dough area and encourage the children

to compare the weight of different size balls. To provide further interest, encourage the children to use loose parts to balance the dough on the scales

# Loose Parts

Provide a set of balance scales and an assortment of loose parts to compare. Encourage the children to use the mathematical vocabulary of heavier than and lighter than as they compare the different items.

Reception - Spring Phase 4 - Alive in 5!

## Compare Capacity (2)

#### Sand

Provide each child with a bowl or cup and a selection of different sized spoons and ladles. Ask them to investigate how many small spoons it takes to fill their container. How many large spoons? How many ladles? Which sized spoon was

the best? Why?

Mud Kitchen

vide a variety of pans, bowls, spoons and ladles for the children to use. Add daily recipes on a chalkboard to encourage the children to measure out ingredients. They could also design and create their own recipes.

Reception - Spring Phase 5 - Growing 6, 7 & 8

# 6, 7 and 8

Guidance

Children continue to apply the counting principles when counting to 6, 7 and 8. They represent 6, 7, and 8 in different ways and can count out the required number of objects from a larger group. Arranging 6, 7 or 8 items into small groups will support the children to conceptually sublise and see how the numbers are made up of smaller numbers. E.g. I know it is 8 because I see 4 and 4 resourage the children to order and compare their resentations, noticing the one more/less patterns of they count on and back to 8 Encour s as

#### Other Resources

Six Dinner Sid – Inga Moore Kipper's Toybox – Mick Inkpen Sidney the Silly Only Eats Six – M W Penn Anno's Courting Book – Mitsumasa Anno What the Ladybird Heard – Julia Donaldson

#### White Rese Maths Post Office Provide a selection of wrapped parcels of various shapes and sizes. Ask the children to compare parcels to see which are heavier and lighter than others. Can they find the heaviest parcel? Can they find the lightest? Are larger parcels always heavier?

Enhancements to areas of learning

**Key Questions** 

Can you draw a picture to show me

Can you show me with these cubes?

Could I have 0 pebbles in my hand?

**Hidden Bonds** 

Could this bucket have 0 pebbles?

How many are hidden? How do you know?

How many pebbles could I have in my hand? If I have 3 pebbles in my hand, how many will be in the bag? Could I still have 4 pebbles left inside the bag?

If there are 4 in the bag, how many will be in my hand?

Could there be 0 in the bag? Could I have 5 pebbles in my hand? How do you know?

Show the children 2 buckets. Explain that you have 5 pebbles hidden inside the buckets. Ask the children how many pebbles **could** be in each bucket.

Could this bucket have 4 pebbles? How do you know?



Provide buckets with strong elastic bands attached to the handle. Ask the children to hold the elastic band and watch how far it stretches when they add an item to their bucket. What do they notice when they add a heavy item? A light item?



## Outside

Provide a small matchbox for each child. Ask them to hunt for things to put inside. Points could be awarded for specific criteria such as the most items, the prettiest leaf, the smallest pebble, the largest item, the softest item, something yellow etc



Set up a pop-up café or picnic area providing a variety of jugs and beakers. Encourage the 'waiters' to take drinks orders and bring out the drinks. Play alongside the children to model the language of nearly full, half full, nearly empty etc and enjoy your delicious drinks! (Discuss why we don't want the cups to be absolutely full!)

# **Prompts for Learning**

# Note: All the prompts for representing, comparing and

composition to 5 can be applied to 6, 7, and 8 Begin with a story such as Six Dinner Sid. How many times do they meet 6 ? Ask the children to make house to represent Sid's street. Can they number the doors an order the houses from 1 to 6?

What if we added another house? And another? How many legs does a ladybird have? How many spots?

Do you know any other creatures with 6 legs? counters to add 6 spots to the other ladybirds. Can you find more than one way to do it? Use



How many colours do you see in the rainbow? Can you paint a rainbow with 7 colours? Can you make rainbows using objects around the classroom? How many colours did you use? Can you find the rainbow in Anno's counting book? Reception - Spring Phase 4 - Alive in 5!

#### Compare Mass (2)

## Guidance

Children may already have some experience of weight through carrying heavy and light items. Encourage them to make direct comparisons holding items to estimate which feels the heaviest then use the Items to estimate which feels the heaviest then use the balance scales to check. Prompt them to use the language of heavy, heavier than, heaviest light, lighter than, lightest to compare items starting with items which have an obvious difference in weight. Avoid the commo misconception that bigger items are always heavier by providing some small, heavier items and some large, lighter ones.

#### Other Resources

Who Sank the Boat - Pamela Allen The Blue Balloon - Mick Inknen Balancing Act - Ellen Stoll Walsh

## Reception - Spring Phase 4 - Alive in 5!

Compare Capacity (2)

#### Guidance

Encourage the children to build on their full and empty to show half full, nearly full and nearly empty. Provide opportunities to explore capacity using different materials such as water, sand, rice and beads. Provide different sized and shaped contain estigate. Prompt them to use the language of tall, thin, narrow, wide and shallow.

Encourage the children to make direct comparisons by pouring from one container into another. They can also use small pots or ladles to make indirect comparisons by counting how many pots it takes to fill each containe

#### Other Resources

There's a Hole in my Bucket! Mary Poppins clip - emptying the carpet bag A Beach for Albert - Eleanor May

Reception - Spring Phase 4 - Alive in 5!

# **Digging Deeper**

### Number Shapes Balance

Provide a set of balance scales and some number shapes. Explore how to balance a number shape for example 5 by putting the 5 piece on one side of the scale and exploring different combinations to make it halance

ent ways can they find to balance 5? What other combinations of shapes balance?



Encourage the children to use the language of equal to avier than, lighter than, heaviest, lightes

Reception - Spring Phase 5 - Growing 6, 7 & 8

# 6, 7 and 8

## Maths Area Encourage the children to think about

where we see 6, 7, and 8 in everyday life and to make collections of 6, 7 and 8 objects in the classroom. Sort these items into 6, 7 and 8 How else could you show 6, 7, and 8?

Outdoors

Go on a mini-beast hunt. Use magnifying pots to observe the creatures carefully. How many legs can they see? Provide pictures to help them identify what they find. Ask the children to make careful drawings of the creatures they find.

#### Provide a tall narrow container and a wide shallow one. Ask the children to predict which will hold more water? How could they check? Encourage the children to try different methods.

More containers could be added and the children asked to order them from smallest capacity to greatest



#### Loose Parts

Provide a range of loose parts such as buttons beads, pebbles, shells and some ten frames. Ask the children to count 6.7 and 8 items onto the 10 frames. How many do they have? Can they see without counting? The children may also enjoy filling large 10 frames outside.



Enhancements to

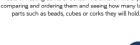
Provide a basket of toys for the children to use to re-enact the story. Take turns to 'hide' one of the toys. Can the children spot which toy is missing? How many toys are there

What if an extra toy arrives? How many will there be now?

areas of learning Kipper's Toybox







# **Key Questions**

What happens if I put a 5 piece on one side of the scale and two 3 pieces on the other? Which is heavier, two 2 pieces or one 5 pieces Which is the heaviest number shape? Which is the lightest? How many ways can you find to balance 5 exactly?

Can you find ways to balance 4 or 31

# Which Holds More?

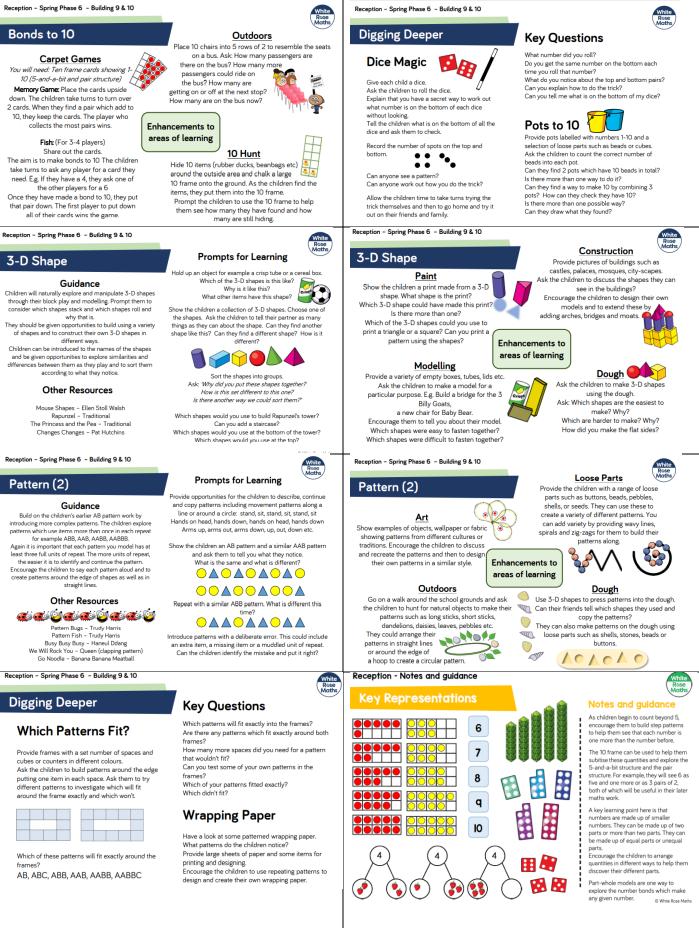






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<text></text>	Mr Wolf's Week - Colin Hawkins	complete in one minute. For example how many time		How many skittles can they knock down? How many
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<text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text>	In small groups or pairs, challenge the children to throw the	Who is the tallest person? How do you know?		Show me 10 cubes on the 10 frame.
<text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text>	Who has thrown their item the furthest?	How many bricks measure the same height as you?	conceptually subitise these larger numbers and explore their	Show me 9 cubes. What do you notice this time?
<text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text>			Children notice that a 10 frame is full when there is 10. They	10 frame without counting them?
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<text><text><text><text><text><text><text></text></text></text></text></text></text></text>		In a small group put the children into pairs and ask them	groups of 5 and 10	
<text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text>			Other Resources	
<text><text><text><text><text><text><text></text></text></text></text></text></text></text>	Prompt them to use the language of further, nearer and	Can they order their towers from shortest to tallest?	46 ···	Can the children spot these and correct you?
<text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text>	closer. Encourage them to record their distances using	Encourage the children to draw their friends and towers	How do Dinosaurs Count to 10? - Yolen & Teague	
<text><text><text><text><section-header></section-header></text></text></text></text>		and to record how many bricks there are in each tower.	Mouse Count - Ellen Stoll Walsh	- Anti-the shifting to sound out 0 and 10 and 11 alticute
<text></text>	further this time?			Can they find different ways to arrange their items?
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<text><text><text><text><text></text></text></text></text></text>	69		Guidance	
<text><section-header></section-header></text>			Children continue to make comparisons by lining items up	
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Loss Parts       Provide a set of dominoes. Can the children sort the staps of dominoes with 7 spots, more the optimes to sort the items into sets and then compare the spots?       Description of the children to make caterpillars with more than the children to thick caterpillar is with more beads and fewer thear 7 spots and fewer thear 7 spots and fewer thear 7 spots. The plays with the dominoes face down, choose one dominoe acch and compare the spots. The plays with the most spots can keep the pair.       Description of the children to make caterpillars with more than this one? Can you find 2 sets with the cominoes face down, choose one domino each and compare the spots. The plays with the most spots can keep the pair.       Description of the children to make caterpillars with more than the children to make caterpillars with more than you. Which caterpillar is the longers?       Ask the children to build or write their name. (Butterbeans with individual letters on are ince for this). How many letters does their, fewer letters or the same number of letters, as the thildren to make caterpillars with more beads and fewer beads the longers?       Set the children to double - side does the children to the caterpillar is the longers?       Ask the children to the caterpillar is the longers?       Ask the children to double - side does the friend?       Ask the children to double - side does the friend?       Ask the children to double - side does the friend?       Ask the children to double - side does the friend?       Ask the children to double - side does the friend?       Ask the children to a pape plate. How many are yellow?       Ask the children to a pape plate. How many are yellow?       Ask the children to a pape plate. How many are yellow?       Ask the children to a plate plate. How many are yellow?       Ask the children t	time? Who can travel the furthest in 9 giant steps? Who can travel the shortest distance with 9 tiny steps? Enhance areas of Outdoors Ask the children to build a wall and set up 10 green bottles. Each time a bottle 'accidently falls' ask the children how many have fallen and how many are standing. Do they always have 10 in total?	number.	<ul> <li>knowledge of where each number sits in relation to other numbers. They understand that when making comparisons a set can have more items, fewer items or the same number of items as another set.</li> <li>They begin by comparing 2 quantities and progress to ordering 3 or more quantities.</li> <li>Other Resources</li> <li>Cockatoos - Quentin Blake Mr Magnolia - Quentin Blake Ten Black Dots - Donald Crews</li> <li>The Napping House - Audrey Wood &amp; Don Wood Engines - Lisa Bruce &amp; Stephen Waterhouse</li> </ul>	parts of the story. Eg in Cockatoos, are more birds hiding in the bathroom or in the attic? As the children to guess how many our could be holding and then count them out on a 10 forme to see. How many buttors can they hold in one hand? Compare their handful to their friends. Use cubes to build towers from 1 to 10. Can the children order the towers? What do they notice?
Loose Parts         Provide the children with a collection of terms to sets and then compare the quantity in each set.       The full rems into sets and then compare the spots. The plays with the dominose face down, choose one domino each and compare the spots. The plays with the most spots can keep the pair.       The children to make a full term?       The children to make a full term? <ul> <li>             Finger Gyn.</li> <li>             Make a caterpillars with more beads on to a pipe cleaner.</li> <li>             Ask the children to make caterpillars with more beads and fewer thes longes??</li> <li>             Which is the shortes??</li> <li></li></ul>	time? Who can travel the furthest in 9 giant steps? Who can travel the shortest distance with 9 tiny steps?	number.	knowledge of where each number sits in relation to other numbers. They understand that when making comparisons a set can have more items, fewer items or the same number of items as another set. They begin by the same number ordering 3 or more quantities.           Image: Control of the same number of items as another set.           They begin by they begin by the same number ordering 3 or more quantities.           Image: Control of the same number ordering 3 or more quantities.           Image: Control of the same number ordering 3 or more quantities.           Image: Control of the same number ordering 3 or more quantities.           Image: Control of the same number ordering 3 or more quantities.           Image: Control of the same number ordering 3 or more quantities.           Image: Control of the same number ordering 3 or more quantities.           Image: Control of the same number ordering 3 or more quantities.           Image: Control of the same number ordering 3 or more quantities.           Image: Control of the same number ordering 3 or more quantities.           Image: Control of the same number of the same number ordering 3 or more quantities.           Image: Control of the same number of the same numbe	parts of the story. Eg in Cockatoos, are more birds hiding in the bathroom or in the attic? As the children to guess how many you could be holding and then count them out on a 10 use to see. How many buttons can they hold in one hand? Compare their handful to their friends. Use cubes to build towers from 1 to 10. Can the children order the towers? And they notice? Can they see that each number is one more than the number before?
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compare the quantity in each set. Can you find a set with more than this one? Can you find a set with more than this one a part pellaters on a pare pellater on the firler on the participation a pare pellater on the firler on the parting the pellater on the participation a pare pell	time? Who can travel the furthest in 9 giant steps? Who can travel the shortest distance with 9 tiny steps? Cutdoors Cutdoors Ask the children to build a wall and set up 10 green bottles. Each time a bottle 'accidently falls' ask the children how many have fallen and how many are standing. Do they always have 10 in total? ecception - Spring Phase 6 - Building 9 & 10 Comparing Numbers to 10 Loose Parts Provide the children with a collection of	number.	<ul> <li>Invokedge of where each number sits in relation to other numbers. They understand that when making comparisons as et can have more items, fewer items or the same number of items as another set.</li> <li>They begin by comparing 2 quantities and progress to ordering 3 or more quantities.</li> <li>Other Resources</li> <li>Cockatoos - Quentin Blake Magnolia - Quentin Blake Dots - Donald Crews The Nappinlae - Audrey Woods Son More Audrey Woods</li> <li>Reception - Spring Phase 6 - Building 9 &amp; 10</li> <li>Bonds to 10</li> <li>Edudate Dots - Donald Crews The Napping Phase 6 - Building 9 &amp; 10</li> <li>Bonds to 10</li> <li>Bonds to 10</li> <li>Edudate Dots - Donald Crews The Napping Phase 6 - Building 9 &amp; 10</li> </ul>	parts of the story. Eg. in Cockatoos, are more birds hiding in the bathroom or in the attic? Grab a handful of buttons. Ask the children to guess how many you could be holding and then count them out on to a 10 frame to see. How many buttons can they hold in one hand? Compare their handful to their friends. Use cubes to build towers from 1 to 10. Can they see that each number is one more than the number before? Prompts for Learning Ask the children to explore different ways of building 1 bods to 10 E.g. How many ways can they find to park cars in 2 car parks, place 10 fairies on 2 toadstools, 1
Carly out find a set with more than this one? Carly out find 2 set with the same quantity? Enhancements to areas of learning Finger Gym Make a caterpillar swith more beads and fewer beads the children to build or write their name. (Butterbeans with individual letters on are nice for this). How many letters does their name have? Do they have more letters, fewer letters or the same number of letters as their friend? Mark Making Mark Marking Mark Making Mark Marking Mark Making Mark Making Mark Marking Mark Marking Ma	time? Who can travel the furthest in 9 giant steps? Who can travel the shortest distance with 9 tiny steps? Cutdoors Outdoors Ask the children to build a wall and set up 10 green bottles. Each time a bottle 'accidently falls' ask the children how many have fallen and how many are standing. Do they always have 10 in total?	number.	<ul> <li>Involtedge of where each number sits in relation to other numbers. They understand that when making comparisons as et can have more items, fewer items or the same number of items as another set.</li> <li>They begin by comparing 2 quantities and progress to ordering 3 or more quantities.</li> <li>Other Resources</li> <li>Cockatoos - Quentin Blake Mr Magnolia - Quentin Blake Mr Magnolia - Quentin Blake Ther Magnolia - Quentin Blake</li> <li>Reception - Spring Phase 6 - Building 9 &amp; 10</li> <li>Reception - Spring Phase 6 - Building 9 &amp; 10</li> <li>Bonds to 10</li> <li>Bonds to 10</li> <li>Cuidance</li> <li>The children explore number bonds to 10 using real objetion infiferent contexts. E.g. There are 10 apples. How many othe ground?</li> </ul>	parts of the story. Eg. in Cockatoos, are more birds hiding in the bathroom or in the attic? Grab a handful of buttons. As the children to guess how many you could be holding and then count them out not a 10 frame to see. How many buttons can they hold in one hand? Compare their handful to their friends. Use cubes to build towers from 1 to 10. Can the children order the towers? What do they notice? Can they see that each number is one more than the number before? Prompts for Learning Mask the children to explore different ways of building in bords to 10 Eg. How many ways can they find to park cars in 2 car parks, place 10 fairies on 2 toadstools, 1 dingsary in 2 urassic parks.
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Finger Gym       Mark Making       Daisy         Make a caterpillar by threading some beads onto a pipe cleaner.       As the children to build or write their name. (Butterbeans with individual letters on are nice for this). How many letters does their name have? Do they have more letters, fewer letters or the same number of letters as their friend?       Other manipulatives such as fingers, bead strings and number shapes are also useful for exploring bonds to 10         Which caterpillar is the longest?       As the children to build or write their name. (Butterbeans with individual letters on are name have? Do they have more letters, fewer letters or the same number of letters as their friend?       Other manipulatives such as fingers, bead strings and number shapes are also useful for exploring bonds to 10	time? Who can travel the furthest in 9 giant steps? Who can travel the shortest distance with 9 tiny steps?	number.	<ul> <li>Involvedge of where each number sits in relation to other numbers. They understand that when making comparisons as at can have more items, fewer items or the same number of items as another set.</li> <li>They begin by comparing 2 quantities and progress to ordering 3 or more quantities.</li> <li>Other Resources</li> <li>Cackatos - Quentin Blake Mr Magnolia - Quentin Blake Dots - Donald Crews</li> <li>The Napping House - Audrey Wood &amp; Don Wood Engines Engines - Lisa Bruce &amp; Stephen Waterhouse</li> <li>Reception - Spring Phase 6 - Building 9 &amp; 10</li> <li>Bonds to 10</li> <li>En Caldance</li> <li>Lisa Bruce &amp; Journes</li> <li>Lisa Bruce &amp; Journes</li> <li>Lisa Bruce &amp; Stephen Waterhouse</li> <li>Dendes to 10</li> <li>Difference</li> <li>The children explore number bonds to 10 using real obje in different contexts. E.g. Three are 10 supples. How many the tree and how many on the ground?</li> <li>10 frames or egg boxes (with 10 holles) can be partially fil with objects and the children asked How many more do</li> </ul>	parts of the story. Eg. in Cockatoos, are more birds hiding in the bathroom or in the attic? Ask the children to guess how many you could be holding and then count them out on to a 10 forme to see. How many buttons can they hold in one hand? Compare their handful to their friends. Use cubes to build towers from 1 to 10. Can the children or der the towers? What do they notice? What do they notice? Can they see that each number is one more than the number before?
Linger Gym       Mark Making       Clipson         Make a caterpillar by threading some beads on to a pipe cleaner.       As the children to build or write their name. (Butterbeans with individual letters on are nice for this). How many letters does their name have? Do they have more letters, Which is the shortest?       As the children to build or write their name. (Butterbeans with individual letters on are nice for this). How many letters does their name have? Do they have more letters, frewer letters or the same number of letters as their friend?       Number shapes are also useful for exploring bonds to 10       Hold up a number shape and ask the children to find to shape which goes with yours to make 10	time? Who can travel the furthest in 9 giant steps? Who can travel the shortest distance with 9 tiny steps?	number.	<ul> <li>Involvedge of where each number sits in relation to other numbers. They understand that when making comparisons as at can have more items, fewer items or the same number of items as another set.</li> <li>They begin by comparing 2 quantities and progress to ordering 3 or more quantities.</li> <li>Other Resources</li> <li>Cackatos - Quentin Blake Mr Magnolia - Quentin Blake Dots - Donald Crews</li> <li>The Napping House - Audrey Wood &amp; Don Wood Engines Engines - Lisa Bruce &amp; Stephen Waterhouse</li> <li>Reception - Spring Phase 6 - Building 9 &amp; 10</li> <li>Bonds to 10</li> <li>En Caldance</li> <li>Lisa Bruce &amp; Journes</li> <li>Lisa Bruce &amp; Journes</li> <li>Lisa Bruce &amp; Stephen Waterhouse</li> <li>Dendes to 10</li> <li>Difference</li> <li>The children explore number bonds to 10 using real obje in different contexts. E.g. Three are 10 supples. How many the tree and how many on the ground?</li> <li>10 frames or egg boxes (with 10 holles) can be partially fil with objects and the children asked How many more do</li> </ul>	parts of the story. Eg. in Cockatoos, are more birds hiding in the bathroom or in the attic? Ask the children to guess how many you could be holding and then count them out on to a 10 forme to see. How many buttons can they hold in one hand? Compare their handful to their friends. Use cubes to build towers from 1 to 10. Can the children order the towers? What do they notice? Can they see that each number is one more than the number before?
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Which is the shortest? rever reteres or the same number of retters thusk, chuck, chuck, chuck outer beans, urop their counters onto a paper piate, pick of the same number of the same	time? Who can travel the furthest in 9 giant steps? Who can travel the shortest distance with 9 tiny steps?	number.	<text><text><text><section-header><text><text><text><text><section-header><section-header><section-header></section-header></section-header></section-header></text></text></text></text></section-header></text></text></text>	parts of the story. Eg. in Cockatoos, are more birds hiding in the bathroom or in the attic? Ask the children to guess how many you could be holding and then count them out onto a 10 forme to see. How many buttons: can they hold in one hand? Compare their handful to their friends. Use cubes to build towers from 1 to 10. Can the children order the towers? What do they notice? Can they see that each number is one more than the number before?
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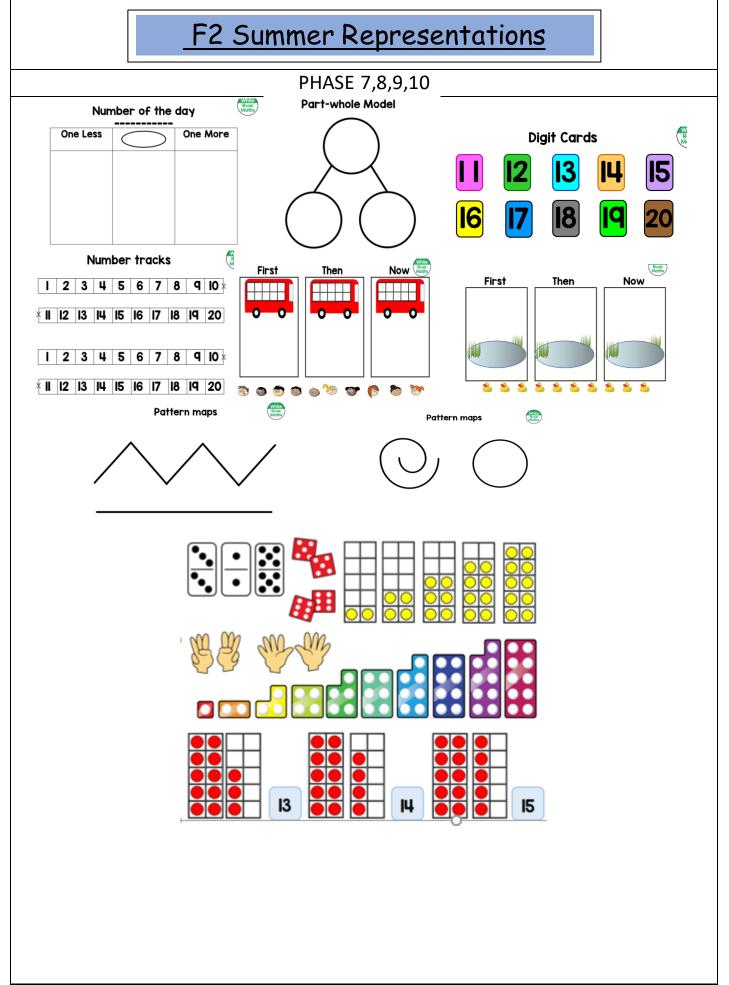


# F2 Summer Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	
Phase		o 20 a Beyono		First Then Now			Find my Pattern			On the Move			
Number	B Coun	ing Nun eyond 1 nting Pa eyond 1	0 tterns		Adding More Taking Away			Doubling Sharing & Grouping Even and Odd			Deepening Understanding Patterns and Relationships		
Spatial Reasoning	Ma	l Reasor tch, Rota Ianipulat	ate,	Co	Reasor mpose a ecompo	and	• •	Reasor lise and	- · ·	· ·	Reason Mapping	• • •	











#### F2 Summer Scheme of Work Maths Consolidating key skills Reading to children is an essential part of their development. Any of these books would be useful Composition Phase 7 - Book List Continue to develop the children's understanding during Phase 7 During the summer term, continue to practise and that all quantities are composed of smaller Jack The Builder - Stuart J Murphy consolidate these key skills. quantities Which Is Round? myto Subitising One Moose, 20 Mice - Stella Blackstone O<sup>nels</sup>a Snail Ten Is a Crab Sorting and Matching Is Bigge Continue to provide regular opportunities for the Continue to encourage the children to notice similarities and differences as they match and sort One to 10 and Back Again - Nick Sharratt children to instantly recognise small quantities Per-A Dozen Ducklings Lost and Found - Harriet Ziefert objects in new contexts. Dice, domino and bingo games as well as matching Ask: Can you find or build one the same as this? and comparison games will continue to support children's subitising skills. Ensure they include a Which is Round? Which is Bigger? - Mineko Marmada Can you find or build one which is different to this? 1 is a Snail, 10 is a Crab - April Savre & Jeff Savre Why is it different? variety of different representations Can you see how I have sorted these items? 1 is One - Tasha Tudor Counting How else could we sort them? The Real Princess - Brenda Williams Provide regular opportunities for the children to Comparing and Ordering 10 on a Train - John O'Learv practise and consolidate counting on and back within Build in regular opportunities for the children to 20 Big Trucks in the Middle of the Street - Mark Le 10 continue comparing and ordering quantities and Support the children to use the counting principles in measures. Snail Trail: A Journey Through Modern Art - Jo Saxtor order to find how many in a set or to count out a Prompt them to notice which set has more, which Which One Doesn't Belong - Christopher Danielson required number of objects from a larger group. has fewer and when 2 sets have the same amount. Math Building Numbers Beyond 10 Building Numbers Beyond 10 **Prompts for Learning** Loose Parts Show the children 11 using the number shapes or 10 frame. What do the children notice? Can they see which Provide different collections of loose Small World Collect 30 items, filling three 10 frames to start the game Children ( Guidance parts e.g. nuts, bolts and washers. number is represented? Now build 12. What's the same? What's different? Continue the pattern, ask the children to predict what Encourage the children to estimate how Encourage the children to build and identify numbers to 20 to start the game. Children take turns to many first and to arrange the items onto 10 frames to help them see how yond) using a range of resources. 10 frames, numb es, towers of cubes, rekenreks and bead strings all 00 (and bev roll a dice and collect the corresponding shap numbers come next and how they could many full tens and how many of the support the children to see that larger numbers are composed number of items. The child who takes represent each number. What happens when they get to 20 and beyond? of full 10s and part of the next 10 the last item, wins the game. As the next ten. Provide opportunities for children to recognise that the children play, prompt them to see how Enhancements to numbers 1-9 repeat after every full 10. So they have 1 full ten and 1, 1 full ten and 2, 1 full ten and 3 etc. Then 2 full tens and many they have and how many remain areas of learning 1, 2 full tens and 2, 2 full tens and 3 and so on. 10 Frame Fill Maths Area Each player starts with 3 empty 10 frames Using one of the texts as a prompt, ask the children to Provide black outlines of a cityscape for the build representations beyond 10 using different resources and talk about the patterns they notice. They take turns to roll a dice and collect the children to fill using the number shapes. Can corresponding number of counters or cubes. They must roll the exact number to reach 30 they see which number has filled each tower? Prepare a set of cards showing pictorial representations Other Resources Is there more than one way to do this? Can and matching numerals (e.g. for 11-25) Give one card to The first player to reach 30 wins the game. Numberblocks Series 3 they design their own cityscape? each child. Ask them to find their partner. Can they also 1 is One – Tasha Tudor X arrange the cards in order? 1 The Real Princess – Brenda Williams Jack The Builder – Stuart J Murphy 14 Reception - Summer Phase 7 - To 20 and Beyond Maths Counting Patterns Beyond 10 Prompts for Learning Daily counting routines and games provide many opportunities to count regularly beyond 10. The children Snakes and Ladders **Counting Patterns Beyond 10** Show the children how to play the game. Encourage them to count on using the Guidance love to correct puppets who make counting errors. Provide regular opportunities for children to count on and back beyond 10. Representations and numerals can support children to count on and back and notice the repeating 1-9 Maths Area Provide a set of birthday cards for different ages. Ask the children to peg I Count, You Count is a game which can be used to practise counting on from different starting points. Begin numbers on the board. For example, if they start on 23 and roll a 4, they count 24, 25, patterns. Provide representations which clearly show the full by counting as you point to yourself. When you point to 26.27. They can also use the board to race 10s and the part of 10, for example 14 is one full ten and four Encourage the children to count on or back from different the children they continue the count. This is great for creating rhythmic patterns and can be extended to more to find a given number the cards onto a washing line in ascending and descending order E.g. Who can be first to find 72? starting points, to say what comes before or after a given number and to place sequences of numbers in order. You car than one group of children: 4 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1 Ask them to close their eves whilst also challenge them to find larger numbers on number tracks and 100 squares. Enhancements to you make one change. Can they spot areas of learning what is wrong? 19 15 13 12 Bingo 14 15 16 Provide a set of towers to 20 with one tower missing. Race to 20 (and Beyond) Ask the children to order the towers to Provide a number track for each child. Children Have sets of numerals from 11 to 20 and identify which one is missing. Other Resources take turns to roll a dice. If they roll corresponding pictorial representations. Ask the children to choose 4 picture cards each. Can they make the missing 1-5, they collect the corresponding counters to fill Numberblocks Series 3 Tween Scene tower? their track. If they roll a 6 they miss a turn. A Dozen Ducklings Lost and Found - Harriet Ziefert Hold up the numeral cards one by one. If the children have a matching picture they place a 20 Big Trucks in the Middle of the Street - Mark Lee **OO6** 7 8 9 10 11 12 13 14 15 16 17 18 19 20 1 is a Snail, 10 is a Crab – April Sayre & Jeff Sayre Peg + Cat – The Teens counter on their card. The first player to cover all their cards wins. 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 Maths Maths Spatial Reasoning (1) Prompts for Learning **Digging Deeper** Which Holds the Most? Find My Match. Show the children a set of shapes and ask them to find Guidance How Many is 100? Provide a set of containers in a range of different sizes the shape which matches the one you hold up. Add challenge by making the shapes more similar and changing the orientations. Provide regular opportunities for the children to complete ijgaws and shape puzzles. They need opportunities to select and rottes theyes to fill a given space. Encourage them to explain why they chose a particular shape and why a different shape wouldn't fit. Provide opportunities for the children to match arrangements of chosen explanations and the particular shape and the particular sh and shapes. Ask the children to predict how many cubes each container will hold. Fill the containers using cubes and then tip them out to find how many. Instead of counting in ones, encourage the children to Prepare collections of objects, some with exactly 100, some with fewer and some with more. Challenge the children to guess which sets have exactly 100 items. $\diamond$ rianglearrange the cubes into ten frames to see how many full Extend to arrangements of linking cubes. Can they find the set which matches yours? Talk about Once they have made their guess, they can check by arranging the objects onto ten 10 frames. Are they tens they have and how many ones of shapes, prompting them to use positional language to describe where the shapes are in relation to one another. Ask the children to select shapes to complete picture boards or tangram outlines. surprised? They might also like to make their own collections of 100 the position of the cubes in relation to one another **Key Questions** S S S Encourage the children to investigate 100 in different ways: How far can you travel in 100 steps? How long would a paper chain with 100 links be? How tall is a tower of 100 linking cubes? How many cubes do you think will fit inside this Other Resources container? Do you think this one will hold more or this one? Do tall containers always hold more cubes? Make a simple shape arrangement. Ask the children to match your arrangement exactly thinking about which shapes to select and where to Snail Trail: A Journey Through Modern Art - Jo Saxton Which One Doesn't Belong – Christopher Danielson Jigsaws and shape puzzles & Tangrams What could we do to help us remember how many cubes (Building the paper chain and tower in 10s, changing the colour after each set of 10, makes it easier to keep track of the ten 10s) each container held? place them in relation to the other shapes. Which container holds the most cubes? Pattern blocks & Cuisenaire rods This can also be done on a Geo boards Can you arrange the containers in order from smallest to larger scale outside. Numicon and base board overlays largest?







White R©se Maths

Reception - Summer Phase 8 - First Then Now

# **Digging Deeper**

How Many Did I Add? Count out 5 cubes. Ask the children to check how many there are and ensure everyone knows that there

are 5 Cover the cubes with a cloth. Then, add a hidden amount of cubes to the cubes under the cloth



Show the children how many cubes there are now. Challenge them to work out how many cubes you added. Encourage them to represent the cubes with their fingers, counters or a picture.

This activity can also be used for subtraction. Ensure the children know how many cubes there are at the start. Cover them up and this time take some cubes out. Uncover the remaining cubes and ask them to work out how many cubes you removed.

Recention - Summer Phase 8 - First Then Nov

## Spatial Reasoning (2)

Maths Area

Provide a set of Cuisenaire rods. How many different ways can the children arrange the rods to build a square? Can they make another square the same size using different rods? How do they know they are square? What do they notice about the rods as they build? Enhancements to

Maths Area

Provide some paper rectangles, squares and triangles. Encourage the children to predict which new shapes will be made if the shapes are folded or cut in different ways and then investigate to see

# Phase 9 - Book List

This is the	Story of Alison Hubble - Allan Ahlberg
Two of Eve	erything – Lilly Hong
Double Da	ve – Sue Hendra
Double the	Ducks – Stuart J Murphy
The Doorb	ell Rang - Pat Hutchins
The Ginge	rbread Man - Traditional
Bean Thirt	een - Matthew McElligott
One Hung	ry Cat – Joanne Rocklin
Ness the N	lurse – Nick Sharratt
One Odd [	Day – Doris Fisher
Pete the Ca	at and the Missing Cupcakes - K & J Dean
Underwate	er Counting – Jerry Pallotta
What the L	adybird Heard - Julia Donaldson
Rosie's Wa	lk - Pat Hutchins
Mr Gumpy	's Motor Car - John Burningham

#### Reception - Summer Phase 9 - Find My Pattern

# Doubling

Guidance

Cultance The children will learn that double means twice as many. They should be given opportunities to build doubles using real objects and mathematical equipment. Building numbers using the pair-wise patterns on 10 frams helps the children to see the doubles. Mirrors and barrier games are a fun way for children to see doubles as they build and to explore early symmetry. Encourage children to say the doubles as they build them, e.g. Double 2 is 4 Provide examples of doubles and non-doubles for the children the same the set of an ad explain why call the set. to sort and explain why.



#### Other Resources

Double Trouble - Nrich s the Story of Alison Hubble - Allan Ahlberg Two of Everything - Lilly Hong Double Dave - Sue Hendra Double the Ducks - Stuart J Murphy erblocks Series 2 Episode 9 - Double Trouble This is the St Numb

# **Key Questions**

How many cubes did we have at the start? How many cubes do we have now? Do we have more cubes or fewer cubes now? How many cubes did I add/takeaway? How did you work it out? Can you represent what we did using the counters? Can you draw a picture to show what we did?

## **Pirate Treasure**

Pick a number card and count out the corresponding number of gold coins. One player covers their eyes whilst the second 'steals' some of the coins, hiding them in their hand. The first player then has to work out how many coins



# Grandpa's Quilt

Ask each of the children to design one square using different shapes. Put all of the individual squares together to make a new quilt for Grandpa. Can we arrange the squares to make a long thin rectangle, a short fat rectangle?



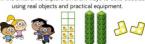
Provide an outline of a 6 by 6 square for each child and some number shapes. Children take turns to roll a dice and select the corresponding number shape which they place in their square. The winner is the first player to fill their square exactly.

areas of learning

Reading to children is an essential part of their development. Any of these books would be useful



White Rese Maths **Prompts for Learning** Allow the children to explore different ways to build doubles



Provide sets of dominoes and ask the children to find the doubles. Show the children how to play dominoes and at the doubles they make as they play.

Play Match my Quantity The children sit opposite each other in pairs with a barrier between them and a collection of small items such as pebbles or cubes. One child sets out a quantity. They show their partner quickly and then hide again. Their partner matches the quantity. Then the barrier is removed. Check - Is it a double? Which double have we made? Play Doubles The children take turns to roll 2 dice. They score a point each time they roll a double The first to reach 3 points wins the game.



Spatial Reasoning (2)

Guidance

Children understand that shapes can be combined and separated to make new shapes. Provide opportunities for the children to fit shapes together and break shapes apart and to notice the new shapes they have created.

Investigate how many different ways a given shape can be built using smaller shapes. Encourage the children to explore the different shapes they can make by combining as et of given shapes in different ways.

Other Resources

# **Digging Deeper**

## Triangles Provide a set of pattern blocks

or similar and challenge the children to build as many different triangles as they can. Who can build the largest triangle? The smallest?

How many different ways can they find to build the same sized triangle? (Cardboard templates with a cut out triangle for the children to fill will provide support)

## Stars



Challenge the children to find different ways to build a star. Encourage them to talk about the shapes they choose and what they notice. How many ways can they build a star using the same shape? Using different shapes?

# **Consolidating Key Skills**

During the summer term, continue to practise and consolidate these key skills.



children to instantly recognise small quantities Dice, domino and bingo games as well as matching and comparison games will continue to support children's subitising skills. Ensure they include a variety of different representations.



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Provide regular opportunities for the children to practise and consolidate counting on and back within 10. Support the children to use the counting principles in order to find how many in a set or to count out a required number of objects from a larger group





Encourage the children to make doubles by adding blobs of paint to one side of the paper only. Then fold the paper over to make the double. Can they predict how many blobs of paint there will be altogether if they start with 3 blobs?

### Prompts for Learning

Show the children 2 identical right-angled triangles which have been made by cutting a rectangle in half diagonally. How many new shapes can they make by fitting the triangles together? Can they make shapes with 3 sides? With 4 sides? Can they make a rectangle



#### Using square tiles or pieces of card, how many different squares and rectangles can they build? How many tiles do they need for the smallest possible rectangle? Can they build a long thin rectangle? A short

wide rectangle? How many tiles do they need to build a larger square? How do they know it is a square? 

# **Key Questions**

Can you make a triangle using the blocks? Can you make a different triangle? Why is it different? Can you build a larger/smaller triangle than this one? How many blocks did you use? Can you make a triangle using 2 blocks? 3 blocks? 4 blocks? Is there more than one way to do this?

White Rese Maths

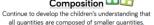
What other shapes can you build? Can you make them in more than one way?



arrangements and shapes they can build using a tangram. Can they use some of the pieces to make a triangle?

Can they join some of the pieces to build a square Is there more than one way to do this?





# Sorting and Matching

Continue to encourage the children to notice similarities and differences as they match and sort objects in new contexts. Ask: Can you find or build one the same as this?

Can you find or build one which is different to this? Why is it different? Can you see how I have sorted these items? How else could we sort them?

#### Comparing and Ordering

Build in regular opportunities for the children to continue comparing and ordering quantities and measures. Prompt them to notice which set has more, which has er and when 2 sets have the same amount

Rose
Outdoors
Have number shapes hidden around the
outdoor area.
Give each child a number shape and ask them
to find another one the same to make a

double. Encourage them to say the double they have found, e.g. Double 5 is 10 Enhancements to areas of learning

#### Finger Gym

Provide ladybird or butterfly templates and ask the children to use the tweezers to make doubles by adding the same number of pompoms to each side. How many different doubles can they make? Can they make one which is not a double and tell

you why? •





White Rose Maths

















# **Trent-Rylands Federation** Maths Progression eception - Summer Phase 10 - On The Move



# Digging Deeper

# X Marks the Spot!

Prepare a simple map or plan with a route marked on for the children to follow. At the end of the route, hide some treasure for the children to discover and mark the spot with an XI

Can the children follow the map and find the hidden treasure? **a** 🔊



Counting Towers Challenge the children to build a tower as tall as they can before the timer runs out. How many blocks did they manage to build? What if each block was worth 2 points? How many points did they score?

Challenge them to have another go and to see if they can score more points.

How Many Legs? The book How Many Legs? by Kes Gray provides many starting points for exploring counting problems. 1. 1

Ask the children to work out how many legs there are in the different scenarios described in the story. The children will need to consider a wide variety of many-legge animals as well as items which don't have any legs at all.

Encourage the children to create their own nonsense scenarios in the style of the story and calculate how many legs there would be.

These could be collated and made into a class How Many Legs? book.