



RECEPTION

MATHS PACK

Helping Your Child at Home

In Reception the children work towards the Early Learning Goals. These are split into two parts; Number and Numerical Patterns.

This guide has some simple ideas for you to help support your child's learning in Maths at home.





Early Learning Goals: Number

HOW CAN I HELP MY CHILD GET HERE?

Young children learn best through play. Remember to make any Maths activities you do at home as fun and engaging as possible!

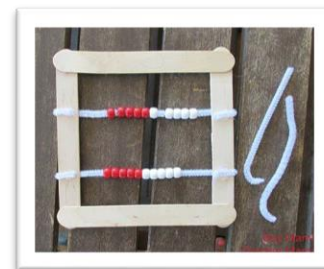
Parent Guide: [Parent support - Maths - Early years Maths - BBC Bitesize](#)

TOP TIPS

- Explore ways to make sure that your child understands that numerals represent quantities.
- Explore different representations of numbers- numerals, groups of objects, tallies, pictures, jumping for a set number of times etc.
- Explore the different ways you can split a number of objects. Stress that the total number never changes. See the ideas below to help you at home!
- Maths is used for counting and quantities, but children need to know the other ways numbers are used. For example, for measurements, putting things in order.

Have a deep understanding of number to 10, including the composition of each number.

- Mix up the number Give your child a number of small objects on a tray or plate. How many different ways can they make the total? Eg *We have 5 biscuits. I can see 1, and 1, and 3. Let's mix them up! Now I see two and three.* Stress that the total number remains the same.
- Make your own Rekenrek A Rekenrek is a bit like an abacus. Make your own at home with pipe cleaners and beads, and use it to explore different ways of making a given number. You can find ideas on how to use a Rekenrek to support learning here [NumBots | Introducing Rekenreks!](#) and here www.learningresources.co.uk/blog/how-to-use-a-rekenrek
- Car Park Write the numerals 0-10 on post it notes. Can your child park the correct number of cars next to each post it? Which numeral has the most cars? Which has the least?
- Tower Blocks As above but use blocks, bricks or Lego to make towers. Can your child see the tower getting taller/ shorter? Count the tower blocks in order forwards and backwards.
- Nature Trail Treasure Hunt Go exploring in the park. Can you find me 5 leaves? Can we collect 10 sticks?
- Exercise Dice Choose an exercise, e.g. jumping, hopping, star jumps, spinning. Roll the die. Can you jump x amount of times? Extend to two dice.
- Play Doh Sausages in a Pan Make 12 play doh sausages. Roll a dice. Can you count out the right number of sausages to put in the pan? How many do we need to put in now? How many should we take out? Sing the song *Five Fat Sausages*
- Apps, Online and TV CBeebies' Number Blocks is a great tool to support children's understanding of number. There is a useful app, as well as activities and episodes on the CBeebies website www.bbc.co.uk/cbeebies/shows/numberblocks



A NOTE ON PATTERN

Though not part of the Early Learning Goals, please work on patterns at home!

- Use beads, Lego or blocks to make repeating colour patterns
- Make repeating patterns with different shapes
- Look at patterns in your home and the wider world



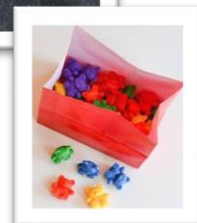
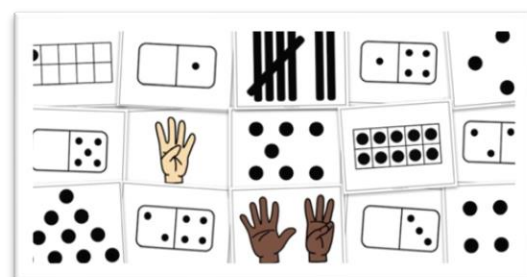


Subitise (recognise quantities without counting) up to 5.

TOP TIPS

- When practicing subitizing, try to use the language “say the number” instead of “count”: the aim is to get children to recognise the total amount without counting. For example, instead of “Count the ladybirds,” try “Say the number of ladybirds.” Language is important.
- Start with small groups, initially up to 3, then build up to 5.
- Use a variety of symbols, images, and real objects. The more practice, the better!

- **Finger Fun** Hold your fingers up in different combinations. *Say the number!* Extend to two hands when ready.
- **Roll the Dice** Explore rolling dice and recognising the total number. How many can you see in one minute? Extend to two dice when ready.
- **Dice Race** Play a game with your child. Taking turns, the winner is the first to roll the numbers in order up to 6. Who can roll a 1 first? Then try to roll 2, 3 etc up to 6.
- **Hit It!** Draw a different representation of numbers up to 5 on post it notes. *Hit the Post It that says 4!*
- **Dominoes** Play traditional dominoes at home. Encourage your child to recognise the whole number.
- **Lego Fun!** Two players have a small Lego base board each. Take turns rolling a dice and choose Lego bricks with the right number of dots to put on the baseboard. The winner is the first person to fill up their board. You can also play this game with Numicon!
- **Mystery Bags** Fill a party bag with a variety of small objects. Can your child pull out a handful of objects and recognise the total? Score a point for each time they get it right.
- **Ladybird Pebbles** Find large flat pebbles and paint them like ladybirds. Paint different numbers of spots on each ladybird. Can you find the ladybird with 4 spots?
- **Online Activity: Subitise with a Pirate** [Subitize with a Pirate \[suhb-i-tize\] \(pirate math song for kids\) - YouTube](#)
- **Sing!** Sing along with Subitising songs online. [The Subitizing Song \(Version 2-- tally marks, dice, cube trains\) - YouTube](#)



TOP TIPS

- For this Early Learning Goal, practice makes perfect. Take opportunities to ask your children about their number bonds and play games to improve their recall online.
- Start small; learn the number bonds to 3 ($1+2=3$, $0+3=3$, $3+0=3$, $2+1=3$) then when confident, extend this to 5 then 10.

Automatically recall (without using rhymes, counting or other aids) number bonds to 5 (including some subtraction facts) and some number bonds to 10, including some double facts.

- **Apps and Online:** Numbots [NumBots | Motivational maths practice for schools and families.](#)
- **Online Activity:** BBC Bitesize [Number bonds to 10 | Reception maths | Number bonds to 10 worksheet - BBC Bitesize](#)
- **Memory Pairs** This is a twist on the classic memory pairs game. Make two sets of numeral cards 0-5 and scatter them face down on a table. Take turns turning over a card. Which number goes with this card to make 5? Can you find the right card? When you have turned over a pair of number bonds, keep the cards. The player with most pairs at the end is the winner.

NUMBOTS



Early Learning Goals: Numerical Patterns

HOW CAN I HELP MY CHILD GET HERE?

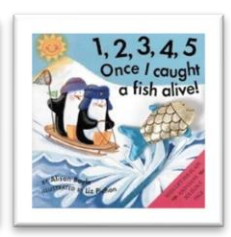
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Verbally count beyond 20, recognising the pattern of the counting system.

SIMPLE IDEAS

- Sing Practice singing and saying the number names in order (see rhymes and songs section)
- Number lines in the real world Show children rulers and tape measures. Point out the pattern that numbers follow, e.g. after 1 comes 2. After 21 comes 22 etc.
- Out and About Count aisles in supermarkets, numbers on doors, steps and your child if they can predict which number comes next.
- 100 square Show children a 100 square (provided) and touch each numeral as you count. What patterns can they see?



SIMPLE IDEAS

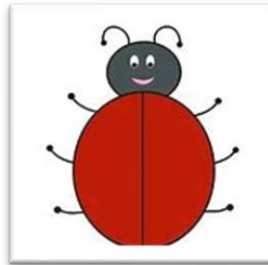
- Plate It Up Have a plate each and put some strawberries on each. How many do you have? How many do I have? Who has more/ less?
- Teddy Bear's Picnic Arrange a Teddy Bear's picnic and give the food out unevenly. Who has the most crisps? Who has the least grapes?
- Dice Game Roll a dice each and take that number of counters/ dominoes/ Lego bricks from a bag. Who has more/ less? Keep going until the bag is empty, checking the totals each time. The winner has the most items.
- Grab, Count and Compare Draw round your hands. Grab small objects and put them on the hands. How many does each hand have? How do they compare?

Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity.





Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.



SIMPLE IDEAS

- Up my Street Look at the pattern of door numbers as you go up the street. Are they odd or even?
- Sock Sorter Put a pile of socks on the floor. Count the total. Children put the socks into pairs. Are there any left over? Is the total odd or even?
- Dice Game Roll a dice and count out that number of objects. Share them on to two plates. Is it equal? Is the number odd or even?
- Domino Doubles Look at a set of dominoes. Can you find the dominoes with doubles? What are the totals?
- Ladybird doubles Put a number of objects on one of the ladybird wings (provided). How many do you have? Put the same number on the other wing. How many do you have now?

MATHS SONGS

- The animals went in two by two
- Five Little Speckled Frogs
- Five Fat Sausages
- Ten Green Bottles
- Five Currant Buns
- Five Little Ducks went swimming one day
- Five Little Men in a Flying Saucer
- Five Little Monkeys Jumping On A Bed
- Five Little Monkeys Swinging from a Tree
- The Goats Came Marching
- 1,2,3,4,5 Once I Caught a Fish Alive
- One Big Hippo Balancing
- One Finger, One Thumb Keep Moving
- One Man Went to Mow
- One Tomato, Two Tomatoes
- One two, buckle my shoe
- Ten Fat Sausages
- Ten Green Bottles
- There Were Ten in the Bed

Words and videos to all the songs above can be found here: [Counting songs - BBC Teach](#)

STORIES TO SUPPORT MATHS

- On the Launch Pad: A counting book about rockets written by Michael Dahl. One is a Snail, Ten is a Crab written by April Pulley Sayre.
- The Very Hungry Caterpillar by Eric Carle.
- One Duck Stuck by Phyllis Root.
- Ten Stars Twinkle by Julie Aigner-Clark.
- Round is a Mooncake: A Book of shapes by Roseanne Thong.
- Goldilocks and the three bears by Nicola Baxter.
- What's the time, Mr Wolf? by Annie Kubler. children about telling the time, as they move through the day with Mr Wolf, anticipating lunchtime.
- How many seeds in a pumpkin? by Margaret McNamara.
- Ten Little Dinosaurs by Mike Brownlow. There are others versions available, such as Ten Little Princesses or Ten Little Pirates.





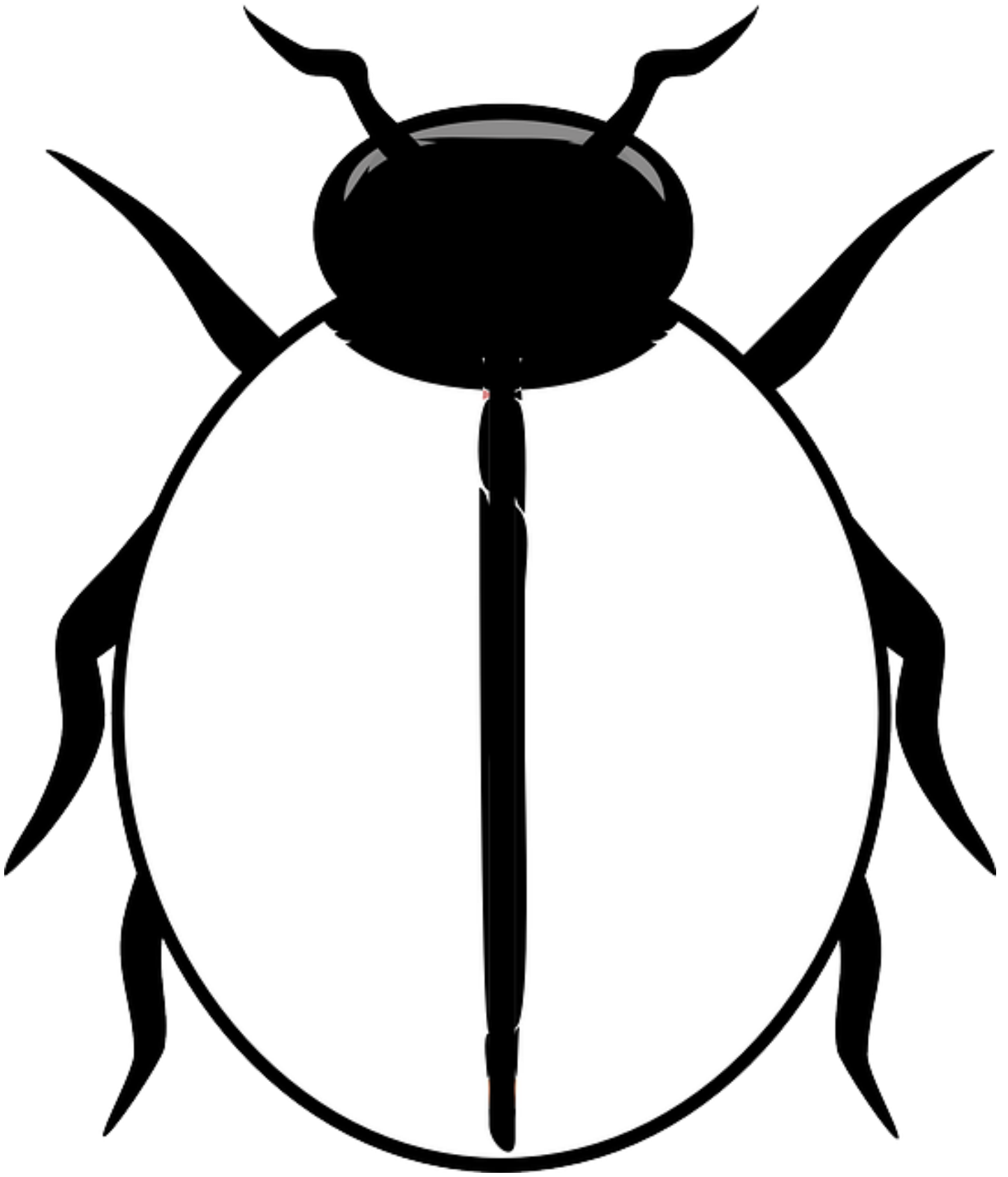
WEBSITES & APPS TO SUPPORT MATHS

- Third Space Learning Maths Hub (resources from maths tuition experts)
- BBC Bitesize – KS2 Maths (everything)
- Primary Games Arena (games)
- Hit the Button (times tables and number bonds)
- Math is Fun (worksheets)
- Primary Resources (oldie but a goodie!)
- NRich (problem solving and challenge questions)
- Numbots
- Maths Zone (portal to lots of maths games and quizzes)
- Ashcott Primary School (videos from pupils for parents)

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



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Number Formation 0 to 10 with Rhymes



Around to my
left to find my
hero, back to
the top, I've
made a zero.



A downward
stroke, my
that's fun. Now
I've made the
number one.



Half a heart
says "I love
you." Add a line.
Now I've made
the number two.



Around the tree,
around the tree,
now I've
made the
number three.



Down and
across and down
once more, now
I've made the
number four.



Draw the hat,
the back and the
belly. It's a five.
Watch out, it
might come alive!



Bend down low
to pick up sticks.
Now I've made
the number six.



Across the sky
and down from
heaven. Now
I've made the
number seven.



Make an "S" and
close the gate.
Now you've
made the
number eight.



Make an oval
and a line.
Now I've
made the
number nine.



A downward
stroke, that's
my one. Add a
zero, that's my
number ten done!