

Biscuits



Family Maths
Toolkit

Ingredients

- 2 cups* of plain flour
- 1 cup* of butter
- 1 cup* of brown sugar
- 1 small beaten egg
- 2 teaspoons of mixed spice
- Pinch of salt

For the icing:

- 1 cup* of icing sugar
- 1-2 tablespoons of hot water
- food colouring if desired

* the cup should hold around 4oz or 125g

Oven: 190°C/ 375°F/gas mark 5

Grease two baking trays

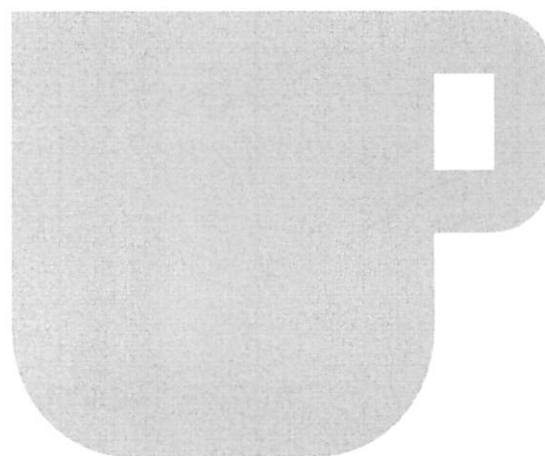
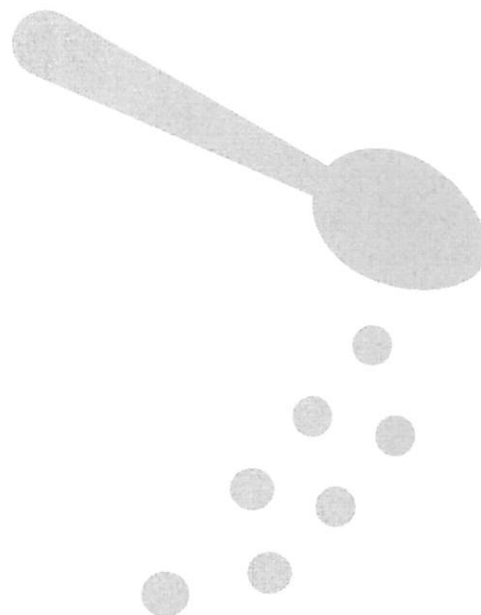
Beat the butter and sugar together until fluffy. Beat in the egg a bit at a time.

Sift in the flour, salt and spice. Mix everything well to make a ball of firm dough.

Sprinkle some flour on to a table and a rolling pin. Then roll the dough until it is about $\frac{1}{2}$ cm thick (length of your little finger nail).

Cut the dough into shapes. Gather any dough left and roll it up again to make more shapes.

Put the biscuits on the trays. Bake them on a high shelf for about 15 minutes until light brown.



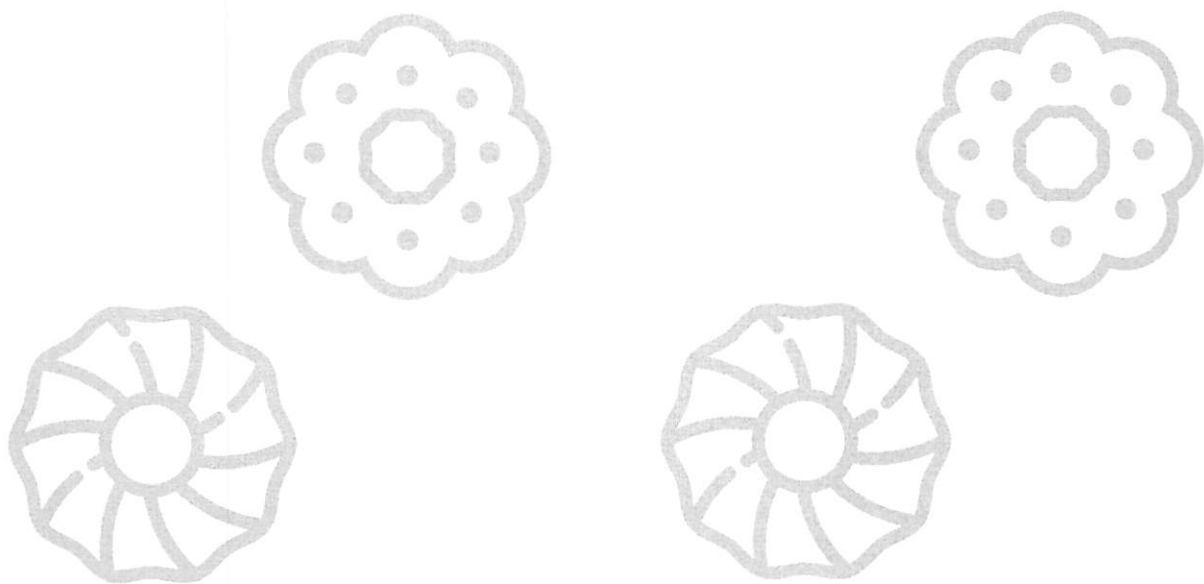
Put the biscuits on a wire rack to cool. Mix the icing sugar and hot water together until smooth. Add some colouring if liked.

When the biscuits are cool, spoon half a teaspoon of icing on to each one and spread it out evenly. They could be decorated with silver balls or anything else you like.

Enjoy your biscuits!

Helpful hints: Talk about the same as, different, more than, less than, equal to, double, what would happen if..., time, how long, hot, changes in dough – soft until cooked.

If it is not possible to make biscuits, share some other cooking with your child and talk about the quantities of ingredients.



Family comment:

Child comment:



Curriculum Link

Use everyday language to talk about weight.

Cost of an ice-lolly



Family Maths
Toolkit

Matthew wants to buy an ice-lolly.

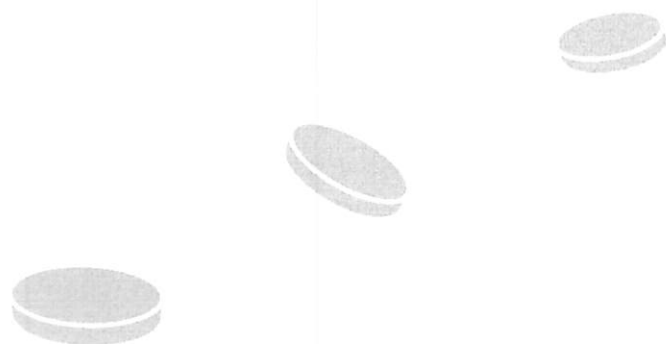
It costs 5p.

What coins could he use to pay for the lolly?

How many different ways can you find to pay 5p?

Helpful hints: Try to work methodically, starting with 1p coins and developing the idea of exchanging 2 x 1p coins to make a 2p coin. How do you know you have found all the possibilities?

If your child finds this easy, ask what would happen if you only had a 10p?



Family comments:

Child comments:



Curriculum Link

Recognise coins and their values, solve problems using coins, use everyday language to talk about money, compare the value of coins.

Play Beetle



Family Maths
Toolkit

Play the game of 'Beetle' by taking turns to throw a die. If you throw a 1, you may draw a body; 2 is for the head; 3 is for two antennae; 4 is for six legs; 5 for the eyes and 6 will give your beetle a tail. First one to finish is the winner.

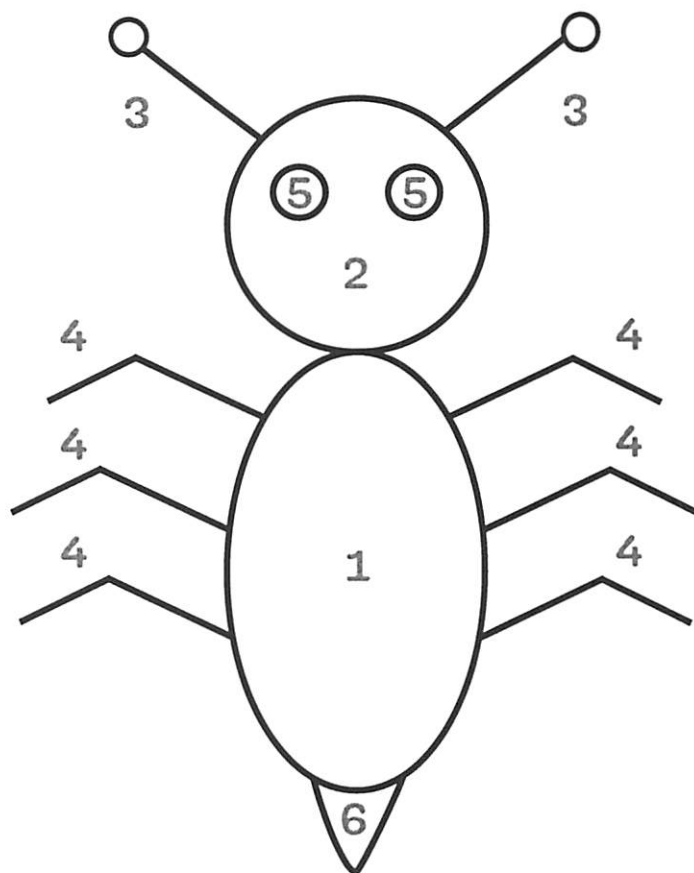
Who will be first to complete a beetle? When you have won, you can add a nose and mouth!

Have fun!

Helpful hints: Any number of people can play this game; you can make the game harder by saying that you cannot add antennae or legs until you have the head or body. Also you could say that you can only draw a single leg (or eye, or antenna) each time you roll a 4 (or 5, or 3), rather than all of them.

Family comments:

Child comments:



Curriculum Link

Subitising - recognising dot patterns on a die which represent a number, counting reliably to 6.

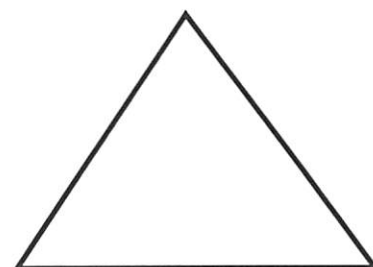
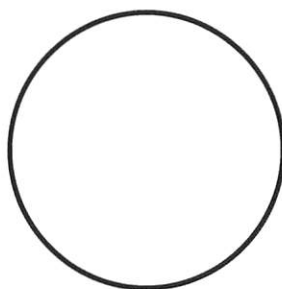
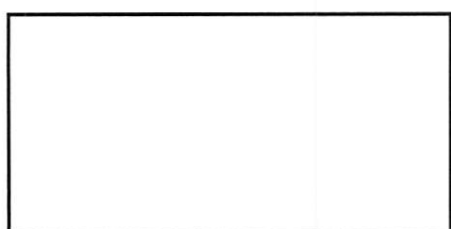
Shapes of food



Family Maths
Toolkit

Think about the shape of some
of the food you eat.

Do you eat any of these shapes?



Can you draw them?

Are there any other shapes you might find in your food?

Could you make a different shape from food?

Helpful hints: Talk about circles, squares, rectangles, triangles
and any other shapes you might find. If possible, make
shapes from sandwiches, biscuits, pizzas etc. Talk about
how many straight sides and how many round edges.

Family comments:

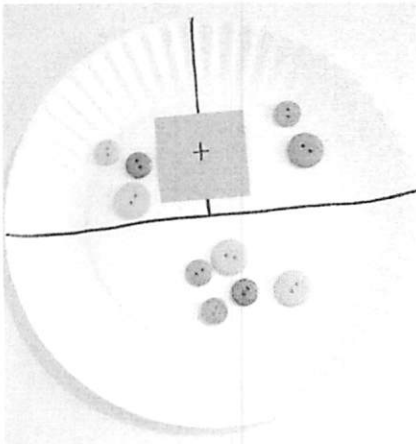
Child comments:



Curriculum Link

Explore characteristics
of everyday shapes
and use mathematical
language to describe
them; 2D shapes.

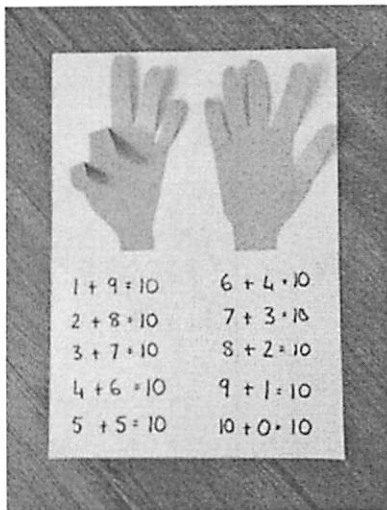
Practical Maths



Paper Plate Addition-

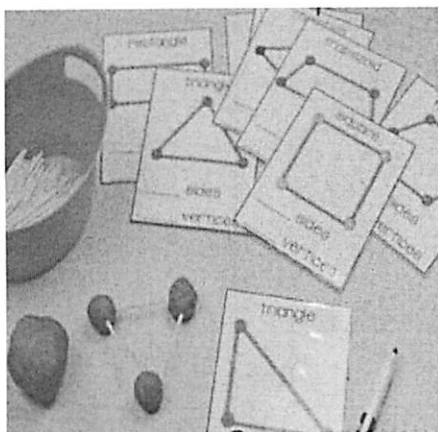
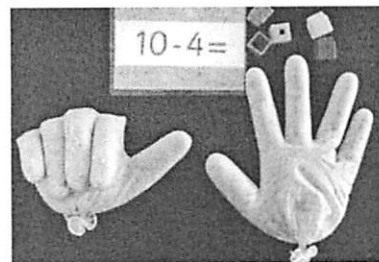
Split the plate into 3 - you can use this for addition/subtraction. You can use buttons, sweets, pasta, lego, bricks - whatever you have to hand. Encourage your child to write the number sentences to go with their addition plates e.g.

$$3+2=5 \text{ or } 2+3=5$$



Number Bonds to 10...

A really good trick for number bonds to 10 facts - draw around your hand/your child draws around their hand and cut them out. Move the fingers up/down to make the different number bond facts. You can always fill up a pair of gloves with sand/flour/cous-cous/rice if you have any of these items to make some real life hands to use!



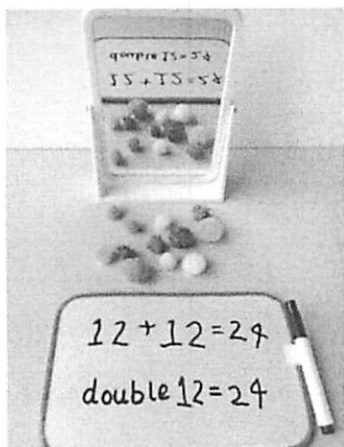
2D and 3D shapes

Make some shapes! You can make 2D or really impress us and make some 3D shapes using toothpicks/skewers with play dough to hold them together. If you don't have play dough - mini marshmallows or midget gem sweets will also work.



Place Value... This works on stones or even things you may have in your kitchen cupboards! I have used dried butter/broad beans before.

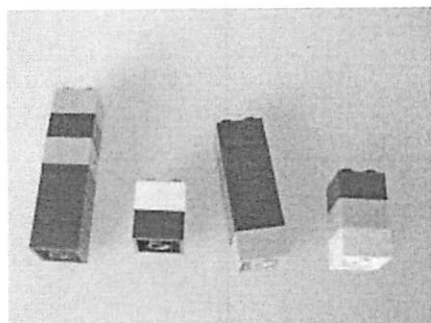
Use numbers that your child is comfortable with to begin with - add more numbers the more confident they become. Let them be involved writing the numbers on the stones/ beans. 1-5; 1-10; 1-20; 1-50; 1-100.



Double it...

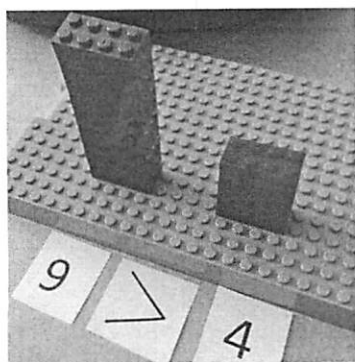
We love this activity! Using a small mirror place any items - pom-poms, sweets, lego, pasta etc... in front of the mirror. Get your child to count the total number from the real life items and those displayed in the mirror.

Practise number formation whilst writing the number sentences like shown below.

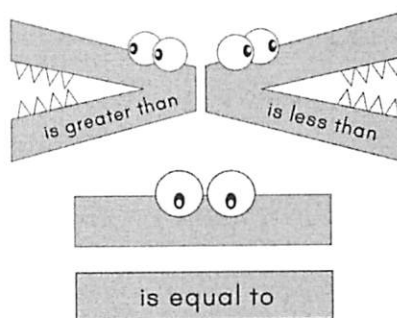


More or less...

Using Lego towers - investigate taller/shorter - more/less. By building towers of two different heights the children can compare these in different ways. Place the towers next to each other - can they tell you the difference between the two towers?



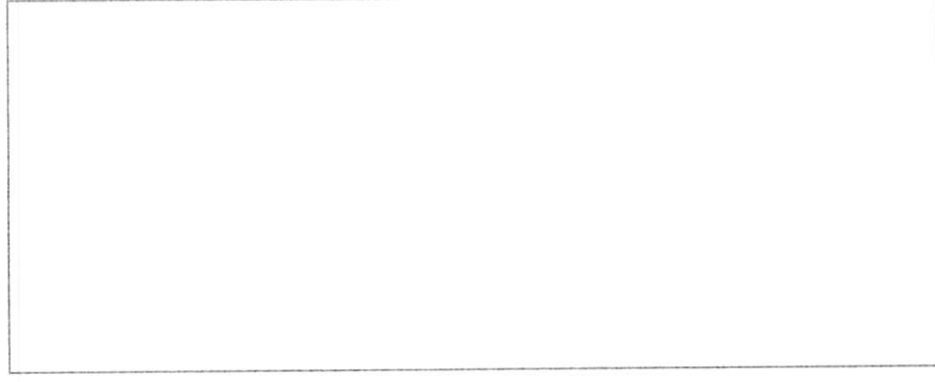
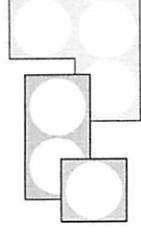
You can introduce greater than/less than symbols as your child becomes more confident.



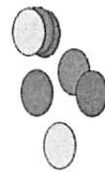
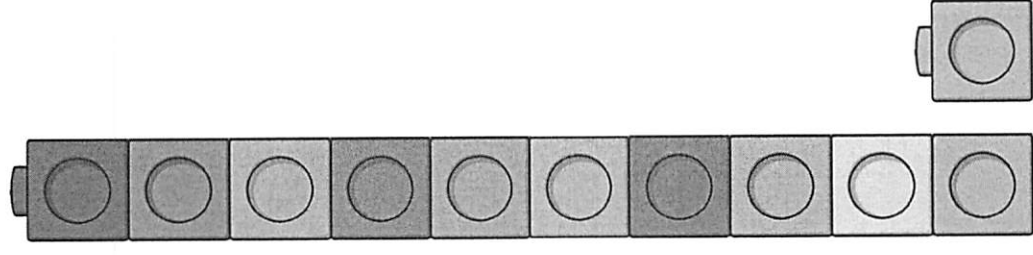
Can you write the number 11?

11

Can you find the matching number shapes?



Can you count all of the cubes?



Can you put 11 counters into the boxes?

All about the Number...

11

Draw 11 dots on the ten-frames.

11

11

11

11

11

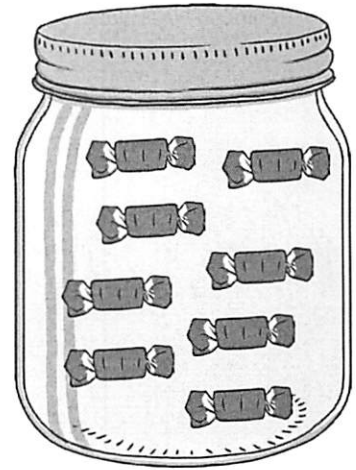
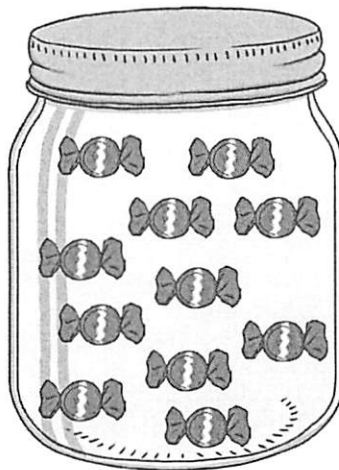
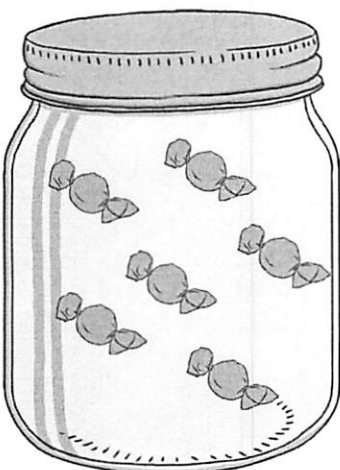
11

11

Nancy has 11 coins. Can you draw them?



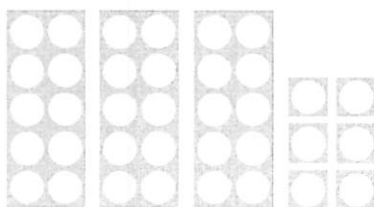
Which sweet jar has 11 sweets? Circle the jar.



One More One Less

One More One Less

1a. Circle the number that is one more than the amount shown below.



45

40

37

VF

1b. Circle the number that is one less than the amount shown below.



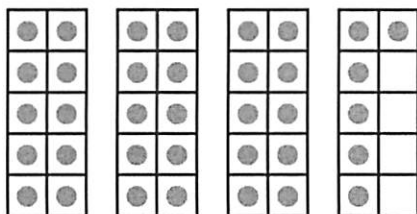
48

16

33

VF

2a. Find one more and one less than the number shown below.



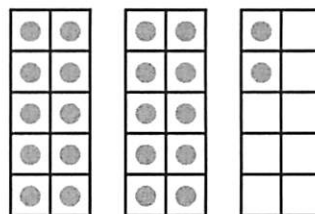
One more is .

One less is .



VF

2b. Find one more and one less than the number shown below.



One more is .

One less is .



VF

3a. Complete the sentences.



There are beads.

One more than is .



VF

3b. Complete the sentences.



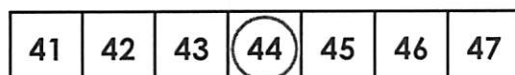
There are beads.

One less than is .



VF

4a. Use the number track to complete the sentence.



44 is one less than .



VF

4b. Use the number track to complete the sentence.



27 is one more than .

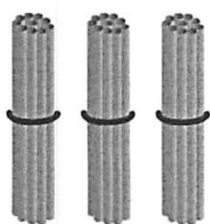


VF

One More One Less

One More One Less

1a. Circle the number that is one more than the amount shown below.



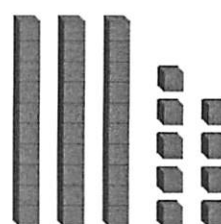
24

40

31

VF

1b. Circle the number that is one less than the amount shown below.



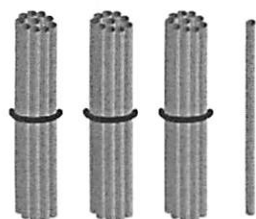
29

38

19

VF

2a. Find one more and one less than the number shown below.



28	29	30	31	32	33	34
----	----	----	----	----	----	----

One more is .

One less is .



VF

2b. Find one more and one less than the number shown below.



37	38	39	40	41	42	43
----	----	----	----	----	----	----

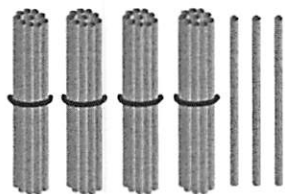
One more is .

One less is .



VF

3a. Complete the sentences.



There are straws.

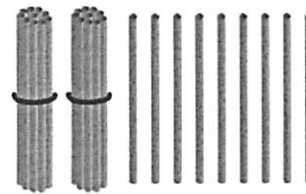
One more than is .

One less than is .



VF

3b. Complete the sentences.



There are straws.

One more than is .

One less than is .



VF

4a. Use the number track to complete the sentence.

35	36	37	38	39	40	41
----	----	----	----	----	----	----

38 is one less than .



VF

4b. Use the number track to complete the sentence.

37	38	39	40	41	42	43
----	----	----	----	----	----	----

40 is one more than .



VF

Tens and Ones

1a. Ted is drawing the number 12. What is missing?



PS

Tens and Ones

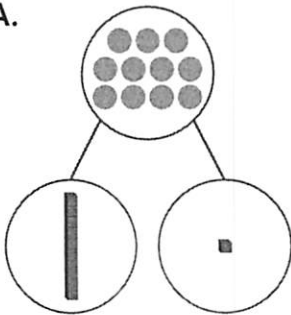
1b. Jim is drawing the number 14. What is missing?



PS

2a. Which is the odd one out? Why?

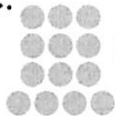
A.



B.



C.



has 1 ten and 3 ones.



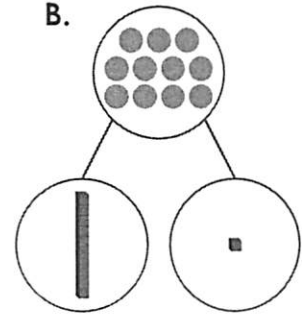
R

2b. Which is the odd one out? Why?

A.



B.



C.

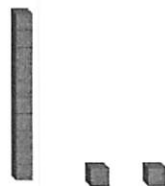


has 1 ten and 0 ones.



R

3a. Cath and Tom are making the number 14.



Cath

We need ●● more ones.

We need ●● more ones.



Tom

Who is correct? Explain how you know.



R

3b. Rick and Kat are making the number 13.



Rick

We need ●● more ones.

We need ● more one.



Kat

Who is correct? Explain how you know.



R

$0 +$	$?$	$= 10$	10
$1 +$	$?$	$= 10$	9
$2 +$	$?$	$= 10$	8
$3 +$	$?$	$= 10$	7
$4 +$	$?$	$= 10$	6
$5 +$	$?$	$= 10$	5
$6 +$	$?$	$= 10$	4
$7 +$	$?$	$= 10$	3

8 + ? = 10	2
9 + ? = 10	1
10 + ? = 10	0

One More and One Less Card Game

Instructions

1. Cut out the digit cards, shuffle them and spread them out face down.
2. On your go, turn over two cards. If the numbers are 1 more or 1 less than each other keep them. If not turn them back over.
3. The player with the most pairs at the end is the winner.



22

23

25

26

28

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31

32

34

35

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41

43

44

46

47

49

50

52

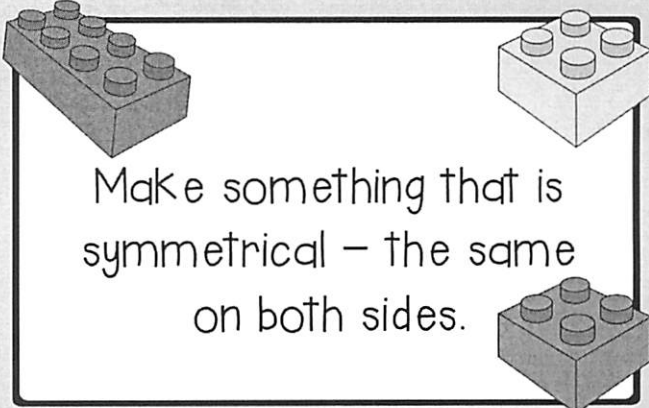
53

55

56

A 1x4 grey LEGO brick is in the top right corner, and a 2x2 grey LEGO brick is in the bottom left corner.

Build something that flies.

A 1x4 grey LEGO brick is in the top left corner, a 1x4 white LEGO brick is in the top right corner, and a 2x2 grey LEGO brick is in the bottom right corner.

Make something that is symmetrical – the same on both sides.

A 2x2 grey LEGO brick is in the bottom left corner.

Make a LEGO car that really drives.

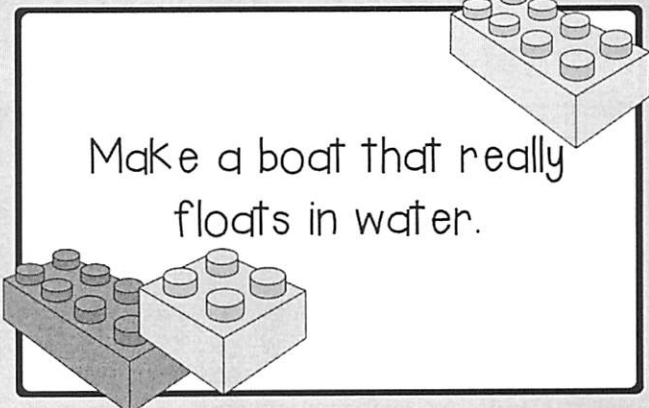
A 1x4 white LEGO brick is in the top left corner, and a 2x2 grey LEGO brick is in the bottom right corner.

Build a fire station.

©The STEM Laboratory.

A 1x4 white LEGO brick is in the bottom right corner.

Build a LEGO pyramid.

A 1x4 white LEGO brick is in the top right corner, a 1x4 grey LEGO brick is in the bottom left corner, and a 2x2 white LEGO brick is in the bottom right corner.

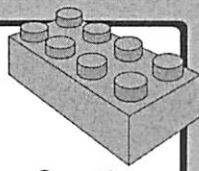
Make a boat that really floats in water.

A 2x2 grey LEGO brick is in the top left corner, and a 1x4 white LEGO brick is in the bottom right corner.

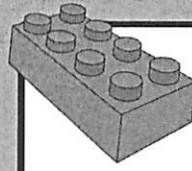
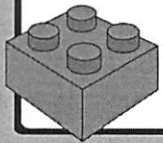
Build something made entirely of blue LEGOS.

A 2x2 grey LEGO brick is in the top left corner, and a 2x2 grey LEGO brick is in the bottom right corner.

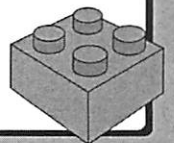
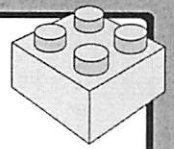
Build your name with LEGOS.



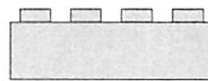
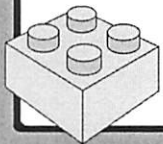
Build your favorite fruit
and see if a friend can
guess it.



Make a LEGO bridge.

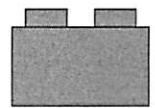


Make a
pattern with LEGOS.

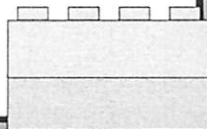


Build an animal with LEGOS.

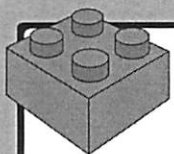
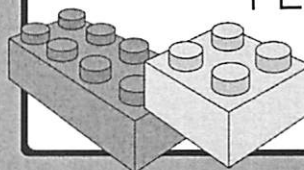
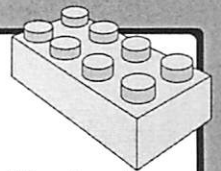
©The STEM Laboratory.



Make a LEGO tree that
stands on its own.



Build something with just
4 LEGOS.



Create a dinosaur.

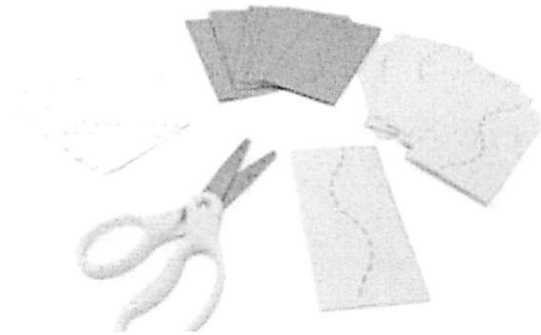
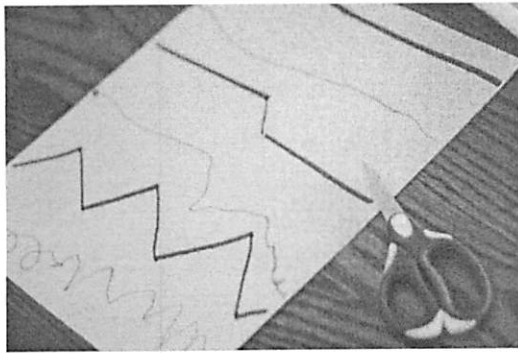


Fill the rectangle below
without going over its edges.

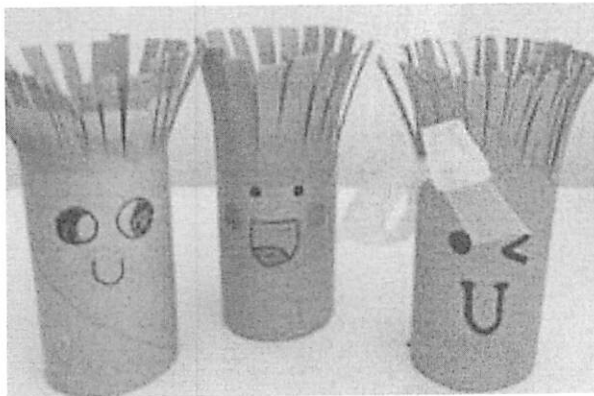


Cutting and using scissors...

Using scissors can be really tricky to do properly. Draw some shapes onto some paper or different types of lines for them to follow and cut along - even better if they copy your lines first!



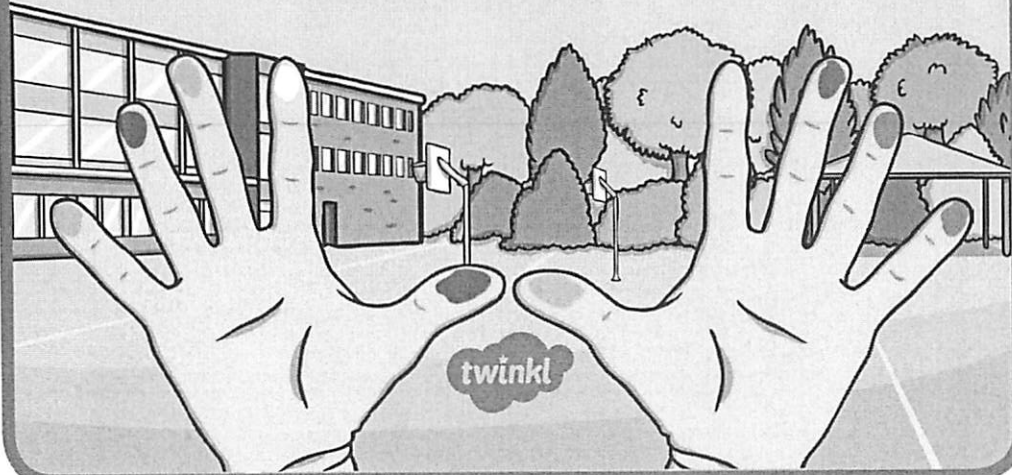
Top Tip! Draw a smiley face on your child's cutting hand like in the picture... remind them that the smiley face always needs to be facing upwards whilst they are cutting out! ☺ Don't stop with paper either... use anything that you have to hand in the home - magazines, old rolls of wallpaper, toilet roll tubes, old birthday cards, different types of foods... spaghetti is perfect!



Pegs! Pegs are amazing for strengthening muscle groups in the hands...make a mini washing line and let your child use pegs to hang out their washing!



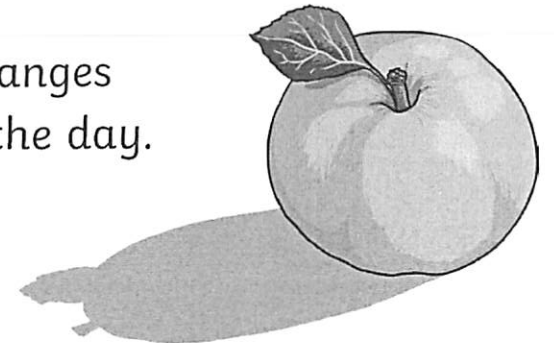
Big Art Challenge



Big Art Challenge

Trace shadows in white chalk from any object that you have in the playground – a tree, a ball or even a flower.

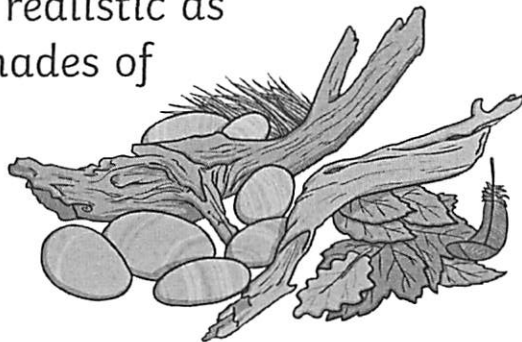
Watch how this changes over the course of the day.



Big Art Challenge

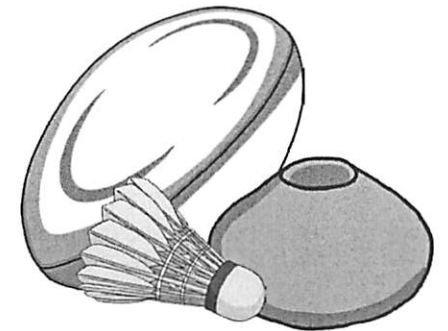
Using only natural materials found in your outdoor area, can you create a life-sized self portrait?

Try to make this as realistic as possible – look at shades of colours in nature to make it look more realistic.



Big Art Challenge

Work with a partner or group. Use PE equipment to create the scene of a game. Ask your friends to guess which game you have decided to create.

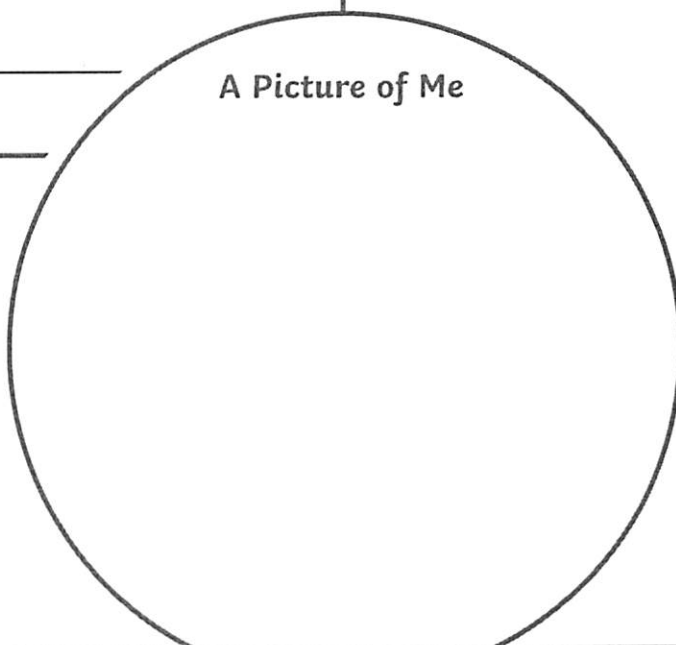


My Special Talent

My Special Talent



A Picture of Me



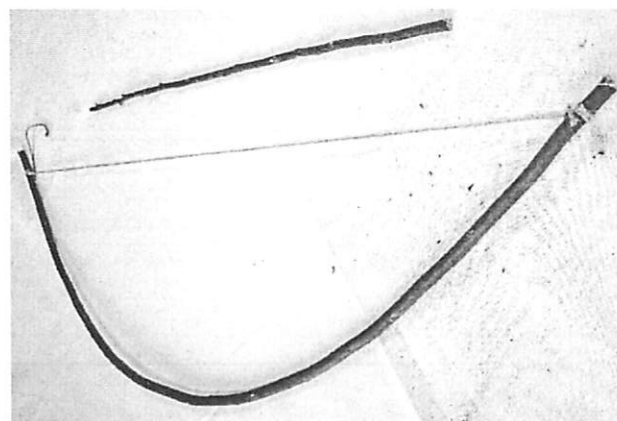
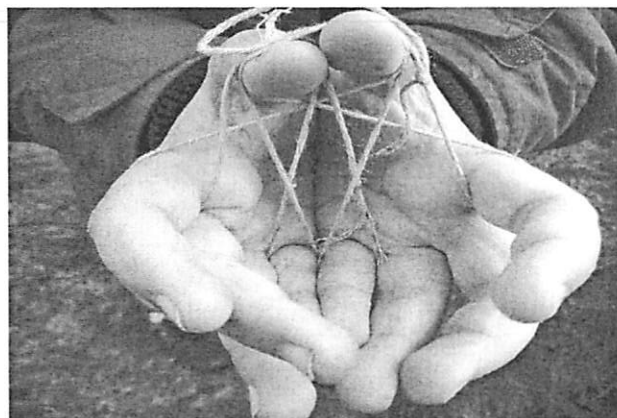
What Makes Me Special

Things with String

Take a piece of string approximately 1m long – how many things can you find to do with it – well how long is a piece of string!?

Early years

Play-based Learning



Instructions

10 things to do with a 1m piece of string.

- Make a bow and arrow.
- Thread leaves together into a garland.
- Measure your head and compare it to your height.
- Make a friendship bracelet.
- Tie it to a stick and take your stick for a walk!
- Make a trail on the floor and follow your trail from the viewpoint of an ant...
- Make a cat's cradle – how many different shapes can you see?
- Use it to measure how far you can jump!
- Use it to lift something heavy. How can you make it easier?
- Make a fishing rod – use a magnet for a hook and paper clips to let you catch your fish.

Learning Outcomes

There's lots of learning going on in these fun activities. For example:

Numeracy:

Measurement: experimenting with everyday items as units of measurement to investigate and compare sizes and amounts.

Science:

Materials: exploring different materials and selecting materials for different purposes.

Technology:

Exploring everyday materials in the creation of pictures, models, concepts.



For more resources visit www.ltl.org.uk/free-resources

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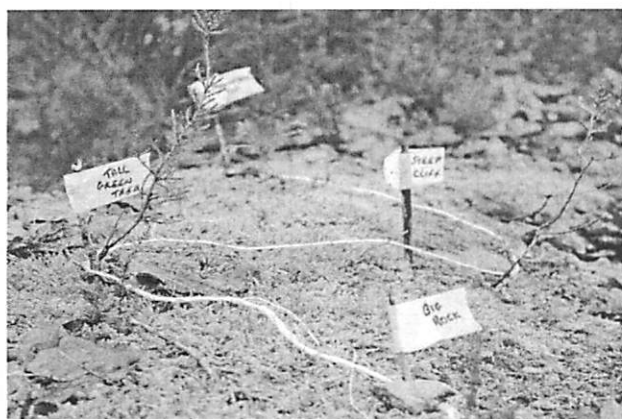


Micro Journey

Mark out your own miniature route from an ant's point of view

5-9

Mapping and Navigation



Background

This is an engaging hook for a **geography** lesson in which children consider routes and **mapping** in miniature. They are challenged to think about the detail that they see, the panoramic views, the paths, climbs and tunnels that they may be travelling through all from the perspective of an ant.

The activity can also support **literacy** by stimulating the use of descriptive **language** and imaginative place naming. Older pupils could **write** their own guided tour or even record an audio tour as a **speaking and listening** extension.

Equipment

- String, or wool a few metres long
- Masking tape and a pen to create small flags for landmarks
- A varied natural landscape such as beneath a hedgerow or a patch of longer grass
- A camera or tablet and mirrors/magnifying glasses (optional)

Activity

1. Take a length of string.
2. Lay the string out across a small stretch of varied terrain.
3. Get down low to the ground and examine the 'route' that the string takes from an ant's point of view.
4. Interesting points can be marked with short twigs and masking tape labels.
5. Mirrors or magnifying glasses can give a different perspective and cameras or tablets used to take macro-pictures.



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65 THINGS TO DO OUTSIDE

1 Spend some time looking up at the clouds - see what shapes and objects you can make out of them.

2 Go Bug hunting

3 Plant some sunflower seeds (or any other type of seed and watch it grow)

4 Make a den

5 Read your favourite story under a tree

6 Look for 5 different types of pebbles & stone 4 different types of leaves, 3 different types of flower, 2 different insects & 1 type of bird

7 Make a birdseed fatball using lard or peanut butter to bind some bird seed and hang in a tree.

8 Make a butterfly feeder - put a sugar/water solution on a plate or an overripe banana and watch to see how many beautiful butterflies visit

9 Make a mud pie with things from the garden

10 Mix a magic potion from things found in the garden

11 Make a natural art picture with found objects such as sticks, leaves and flowers to make faces or your favourite character.

12 Do some bark rubbing and use crayons to make rubbing of lots of different surfaces

13 Make a pair of binoculars out of toilet rolls and use them to spot as many birds in your garden as you can

14 Have a teddy bears picnic

15 Play Hide and seek

16 Play I-spy

34 Find as many things you can that fit in a Matchbox.

35 Make an Egg box caterpillar (fill with soil and grow cress for its hairy back!)

36 Make an obstacle course from things you can find in the house and garden, see how can finish fastest!

37 Learn to tie new knots to help you with den making.

38 Make a photo frame from sticks and string.

39 Learn to juggle (use balls if you have them or raid the fruit bowl!)

40 Keep a wildlife diary (what's flowering when, what birds you see, what the weathers like each day)

41 Write a story about an animal or bird.

42 Write an acrostic poem using any of these words: SEED, GARDEN, LEAF, TREE, NATURE.

(this a poem in which the first letter of each line spells out a word, i.e. SEED.

43 Make an origami boat and see if you can get it to float in a bowl of water or paddling pool.

44 Ask your family what they used to like to do outside when they were children

- and then have a go yourself!

45 Press some flowers between kitchen or greaseproof paper in a heavy book.

46 Create a nature mobile using a stick and hang interesting objects from it.

47 Hide some treasure and then make a treasure map of your garden and see if people can find it.

48 Make a maze using string and see if everyone in your family can work their way through it!

49 Play catch.

50 Find an unusual container and plant it up with flowers (old shoe, old wellie, tea cup) or decorate a container to plant up (Yoghurt pot, margarine tub, milk bottle)

17 Make a stick man

18 Make a magic wand from a stick and wrap colourful wool or string around it or even paint it.

19 Make a plastic bottle bug hotel.

20 Plait long grass to make a book mark or bracelet.

21 Make a daisy chain.

22 Fill an old plate or shallow container with water to make a bath for the birds.

23 Build a den for you.

24 Build a den for your favourite toys.

25 Fold a paper aeroplane and see how far it can fly.

26 Fitness challenge! - complete three laps of your garden, 1 hopping like a bunny, 1 slithering like a snake, 1 flapping your arms like a bird.

27 Make a kite and fly it.

28 Search for fairy doors.

29 Look for faces in tree trunks.

30 Make a nature crown using card and decorate with leaves and flowers.

31 Make a leaf painting.

32 Make a miniature fairy garden.

33 Make an eggshell cress head.

51 Sit somewhere quiet in the garden and count how many different noises you can hear. Can you hear birds, insects, people, lawnmowers?

52 Float or sink - take a bowl of water outside and collect objects to see which float and which sink, or which hold water and which leak!

53 Make tin can telephones and see if you can have a conversation with someone.

54 Make Salt dough and press leaves, twigs, bark, flowers or anything else with an interesting texture into it to make some natural art. (you can also use Play doh)

55 On a clear night, go outside and look for stars, the moon and maybe some planets.

56 Be a night detective - put an old sheet over a washing line and shine your light at it - can you see any moths?

57 Play hopscotch.

58 Draw your garden.

59 Climb a tree.

60 Practice doing a headstand.

61 See how high/far you can jump.

62 Build a Tin-can coconut shy and challenge your family to see who can knock the most objects off.

63 Make natural paints from garden materials (squish blackberries or elderberries, add water to soil to make mud!)

64 Mark a line on the floor and try to "walk the tightrope"

65 See how many different shapes you can find in the garden - triangle, square, circle etc



Year 1 & 2 Sketchbook Art Skills

Activity	Media	Example	Tick or date
Draw as many different lines as you can. (zig-zag, wavy, fat, dotted etc)	HB pencil Colouring pencils		
Take a pencil for a walk. Colour in each section with a different colour/shade.	Pencil crayons or watercolour pencils		
Take a pencil for a walk. Shade in each section with a different tone.	HB, 2B, 4B, 6B pencils		
Overlap and stick torn pieces of tissue paper to make a design.	Tissue paper PVA or Pritt Stick glue		
Divide page into 4. Draw a seasonal picture in each - spring, summer etc	Chalk pastels or colouring pencils		
Draw numbers 1 - 9 in bubble writing. Decorate each number with a different pattern.	Colouring pencils Fineliner pens		
Collect natural objects and draw them close up. (leaves, feathers, seeds)	Magnifying glass Fineliner pens or pencils		
Draw lots of different houses from memory- add features.	HB pencil Colouring pencils		
Divide page into 4 or 8. In each square design a different pattern.	Felt tip pens Pencil crayons.		
Draw around 2D shapes, overlap and colour in. Practice drawing 3D shapes.	3D shapes 2D shapes Pencil crayons		
Divide your page into 4. Draw yourself doing your favourite activities.	HB pencil Colouring pencils		
Draw and paint your family.	Watercolour paints or pencils Fine brushes		
Draw a picture of an imaginary land - add lots of details.	HB pencil Watercolour pencils		

Kindness Jar

Kindness jars are a brilliant way of celebrating all the kind things we do. Celebrations of the kindness in our lives can enhance and improve our wellbeing. Use these craft instructions to create your own Kindness Jar and note down any ways you or members of your family are kind to each other each day. When you see someone being kind, record it on a small piece of paper and drop the piece of paper in the jar. Later on, you can spend some time, reflecting on all the kindness you have collected.

You will need:

- glass or plastic jar
- Kindness Jar label
- scissors
- tissue paper or colourful paper
- paintbrush
- paper scraps to record your moments of kindness
- white glue



Instructions



1 Cut shapes out of the colourful paper or tissue paper.



4 Add your Kindness Jar label.



2 Using your paintbrush, put glue on the parts of the jar that you want to decorate.



5 You can paint over the colourful paper with extra glue if you would like to. This will give a nice, shiny effect.



3 Carefully stick the shapes you have cut out on to the jar.



6 Enjoy using your jar. At the end of each day, read the pieces of paper you have added to the jar and reflect on what we have to be grateful for.