

Maths Homework Activities

Weight - when floating and sinking!

This is a science and maths activity rolled into one!



You will need:

A variety of objects from around the house of different weights, sizes and materials.

A bowl of water.

Activity.

Experiment by placing items into the water one at a time. Which is heavy and which is light? Which items sink and which items float? Is it always the bigger objects that sink and the smaller objects that float?

Patterns- Nature kebabs



You will need:

A stick

Different colour, shape and size leaves.

Activity

Collect lots of different leaves while outside. When you have collected lots of leaves find a long stick. Thread the leaves onto the stick in a repeated pattern. See if you can make your repeated pattern more complicated by thinking about size or shape of the leaves.

Practice counting and play hide and seek!



You will need: Family members to play with.

Activity

Invite your family to play hide and seek with you! Count aloud to 10 while everyone else hides. Challenge yourself by sometimes counting beyond 10, count backwards, choose a different number to start and finish on, count in 2's, 5's or 10's.

Feely Bags



You will need:

A pillowcase or bag.

A selection of 3D and 2D objects such as an orange (sphere), box(cube, cuboid), tin of food (cylinder)...

Activity.

Place around 3 or 4 items in the bag.

Feel the bag and an object - describe what you can feel using mathematical language such as round, curved, corners, sides, faces.

Can you guess what shape the object is

Estimation jars



You will need:

an empty jar

Activity

Create an estimation jar. Fill your jar with objects from outside ie. Stones, cones, leaves etc. Estimate (have a guess) how many objects are inside before counting them carefully to see if you were correct!

Counting in 2's!



You will need:

Pairs of things - like socks!

Lots of them.

Activity.

When we have 2 of something, we can call them a pair - just like a pair of socks. Collect lots of pairs of socks and put them together into their pairs.

How many socks have you collected altogether?

Place them into their pairs and see if you can count them in 2's

Board Games

Guess Who

2 Player

Have you ever played the game guess who?

1. Can you draw 12 different looking people (you need two copies of them) or you could use pictures of your family members.
2. Then set them up so they are facing each of you.
3. Look up the rules on how to play guess who and off you go!



Colours and Shapes Board Game

Find the print out below and set up the board game.

Have fun playing

Make your own board game

Can you find a piece of paper and objects around your house and make up your own board game like the one in the picture?

You can design your own board and then make up your own rules. Can you write your rules down?

How many players will you need?
How do you win?



Snakes and Ladders

Find the snakes and ladders game board below. Can you and your family play it together?

Remember you go up the snakes and down the ladders.

Who will win?



COLORS & SHAPES BOARD GAME

MATERIALS:

WHITE CARD STOCK
SCISSORS
GLUE
GAME PIECES

ASSEMBLY INSTRUCTIONS:

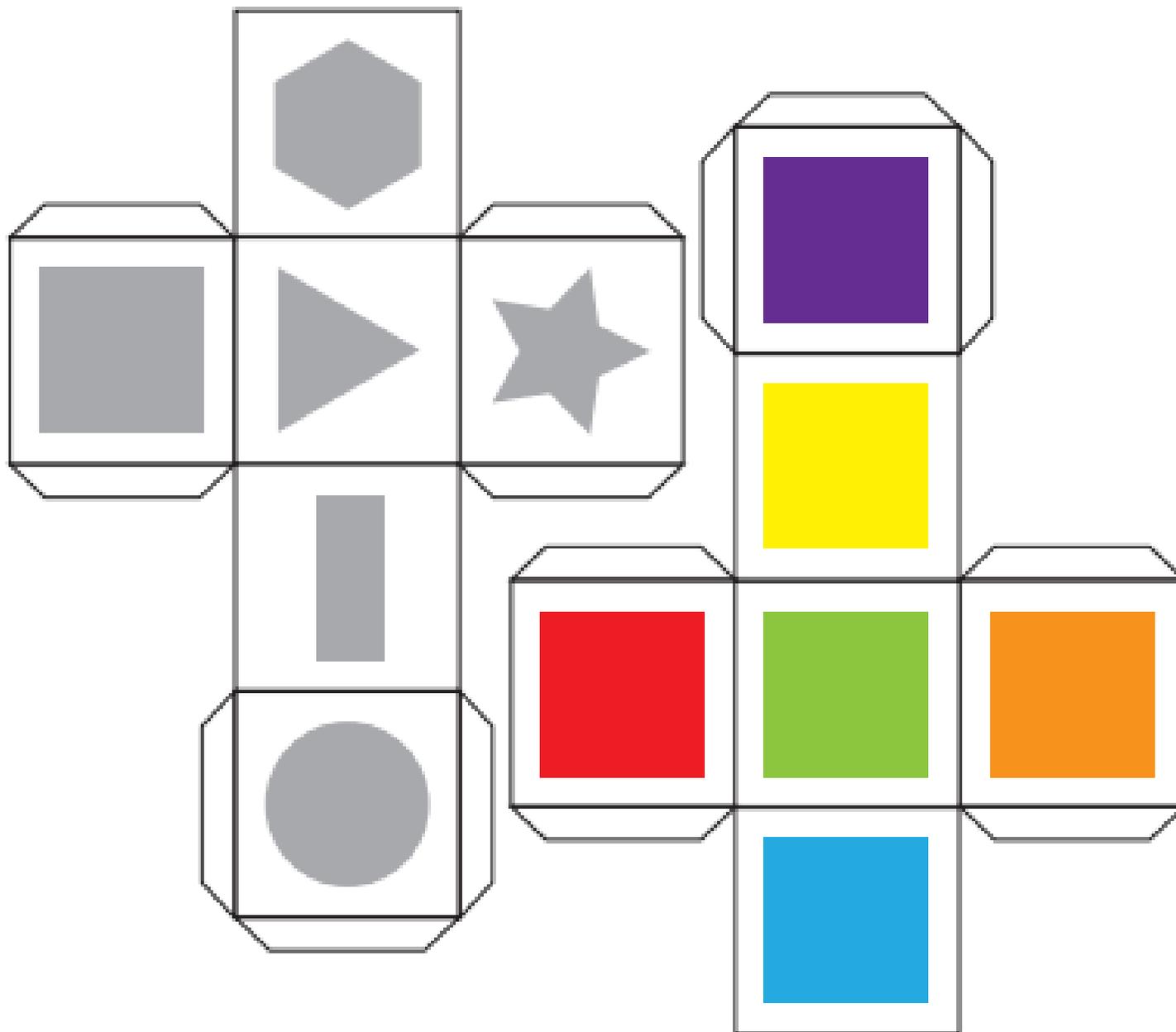
Print printables on white card stock.
Cut out paper dice, fold at each line, then glue the flaps to the inside of the box.
Cut out play cards.

TO PLAY:

Lay cards face down.
First player rolls a card and follows the instructions on the card.

Roll a Color: Roll the color die
Roll a shape: Roll the shape die
Move Forward Two Spaces
Move Back 1 Space

Move the game piece either according to the card or the die.





START			

COLORS & SHAPES BOARD GAME

SWITCH SPOTS

WINNER



ROLL A
COLOR

ROLL A
SHAPE

MOVE
FORWARD
2 SPACES

MOVE
BACK
1 SPACE

MOVE
FORWARD
2 SPACES

Snakes and Ladders



54	63	62	61	60	59	58	57
49	50	51	52	53	54	55	56
48	47	46	45	44	43	42	41
33	34	35	36	37	38	39	40
32	31	30	29	28	27	26	25
17	18	19	20	21	22	24	
16	15	14	13	12	11	10	9
1	2	3	4	5	6	7	8

The board features several snakes and ladders. Snakes are represented by green wavy lines connecting higher numbers to lower numbers: 50 to 46, 42 to 38, 38 to 34, 26 to 22, and 19 to 14. Ladders are represented by brown wooden structures connecting lower numbers to higher numbers: 1 to 3, 3 to 45, 4 to 53, 9 to 34, 11 to 38, 12 to 53, 15 to 36, 17 to 34, 20 to 45, 21 to 44, 27 to 38, 32 to 45, 40 to 56, and 53 to 60.



Dice Games

Roll a Beetle

Each number you roll gives you a different body part. If you roll a 1, you get a Body. If you roll a 2 you get a Head. If you roll a 3 you get an Eye. If you roll a 4 you get an Antennae. If you roll a 5 you get the Tail. And if you roll a 6 you get a Leg. You have to get your body first, though. So you need to roll a one before everything else.



Roll and Colour

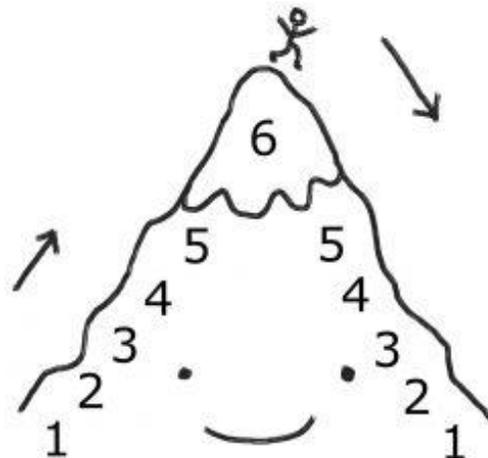
Can you roll the dice and colour in the right parts on the colouring sheet?

See the colouring sheets below



Roll a Mountain

Draw a mountain like in the picture. You must roll each number that is shown on the mountain, in order. So if the first number is a 1, then a 1 must be rolled before climbing! Each number must be rolled in order, so there can be no jumping up the mountain if they roll a number that appears later on. The winner is the first person that is able to get up and over the mountain with a series of successful dice rolls.

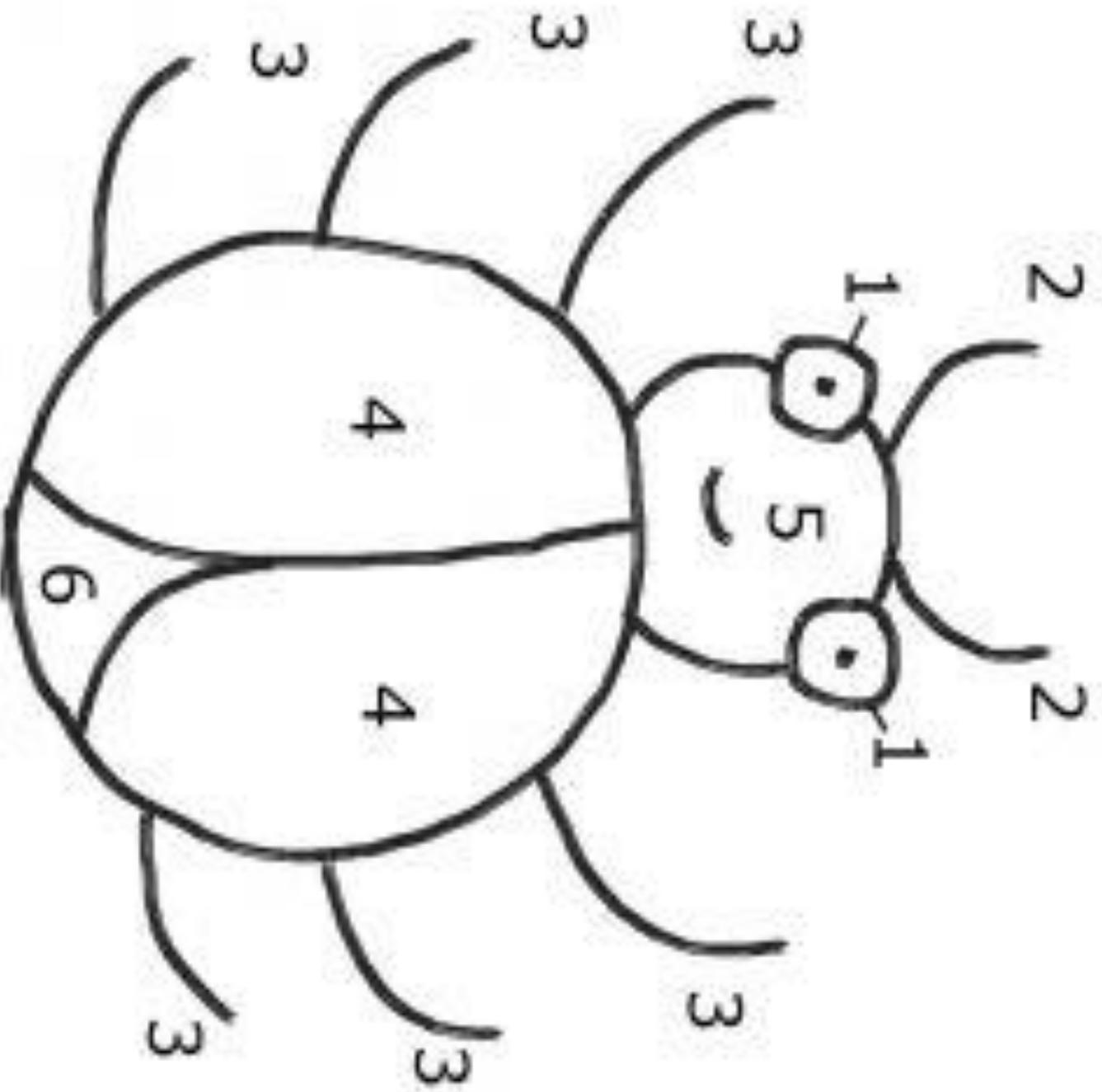


Pig

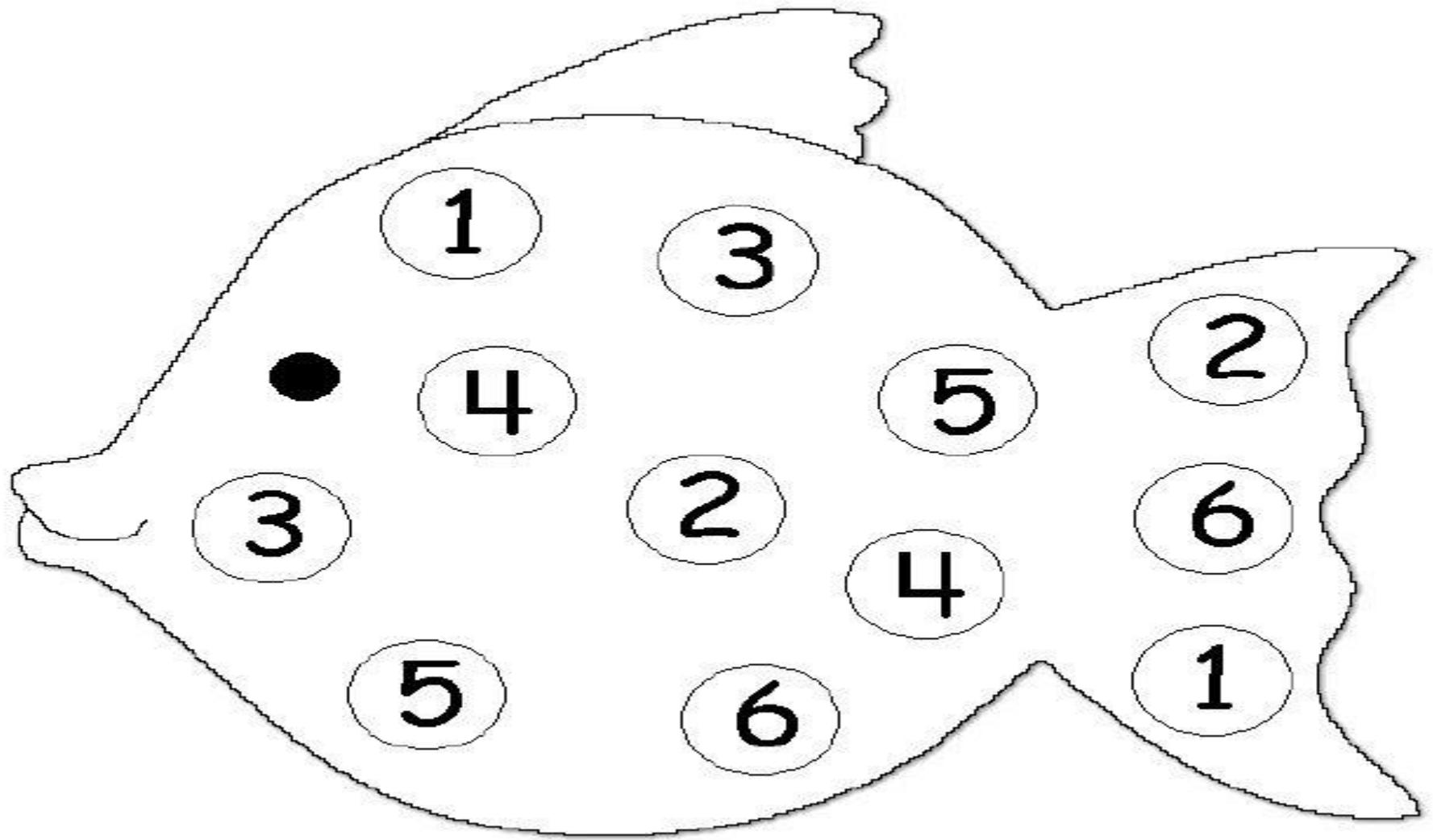
Pig is a fast dice game of chance. All you need to play is 2 players (or more....) and 1 die.

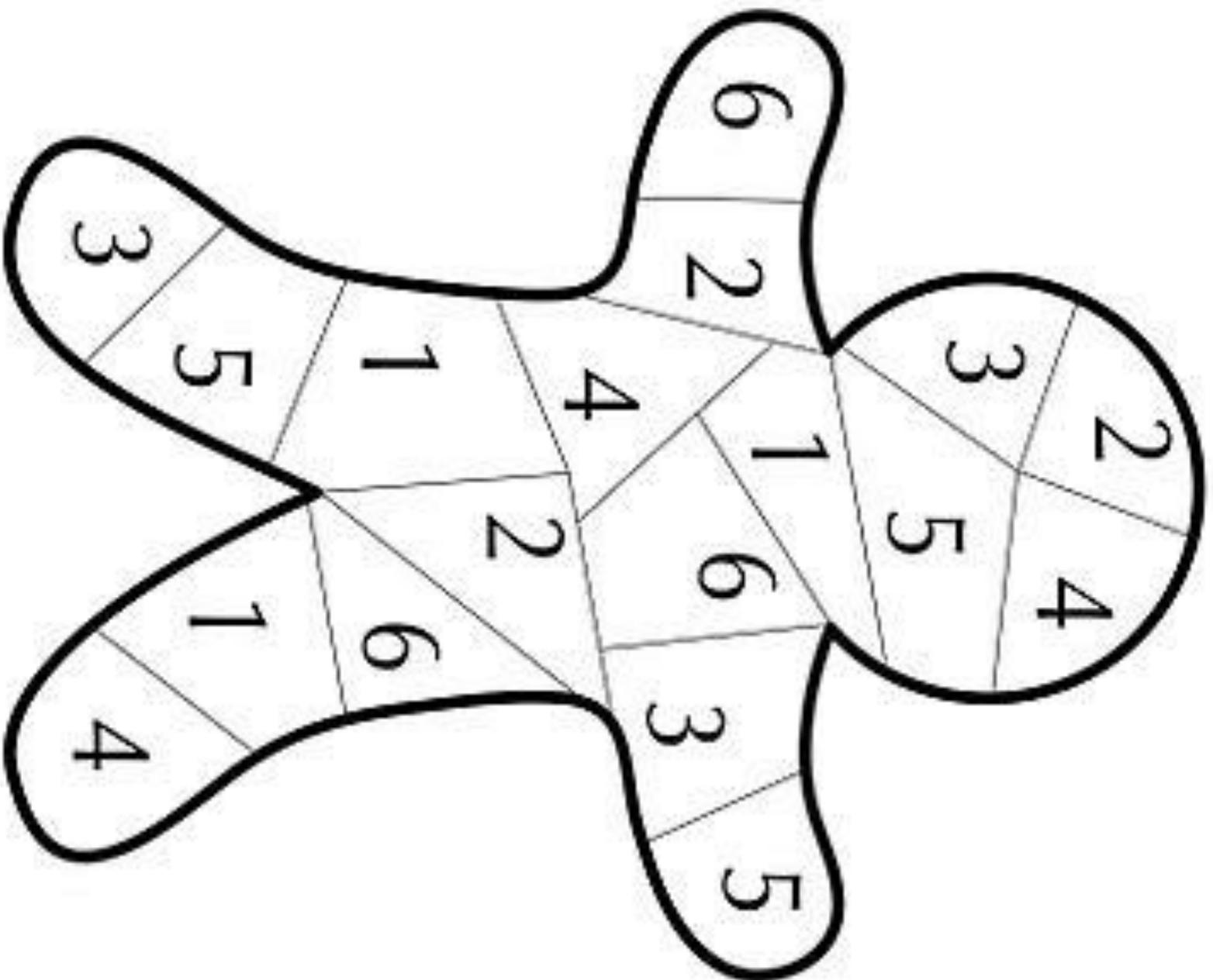
To play Pig, a player rolls the dice over and over. The goal is to get as many points as possible- by adding up the face value of the rolls. But watch out- if you roll a 1 your turn is over and you lose all of the points from that roll.

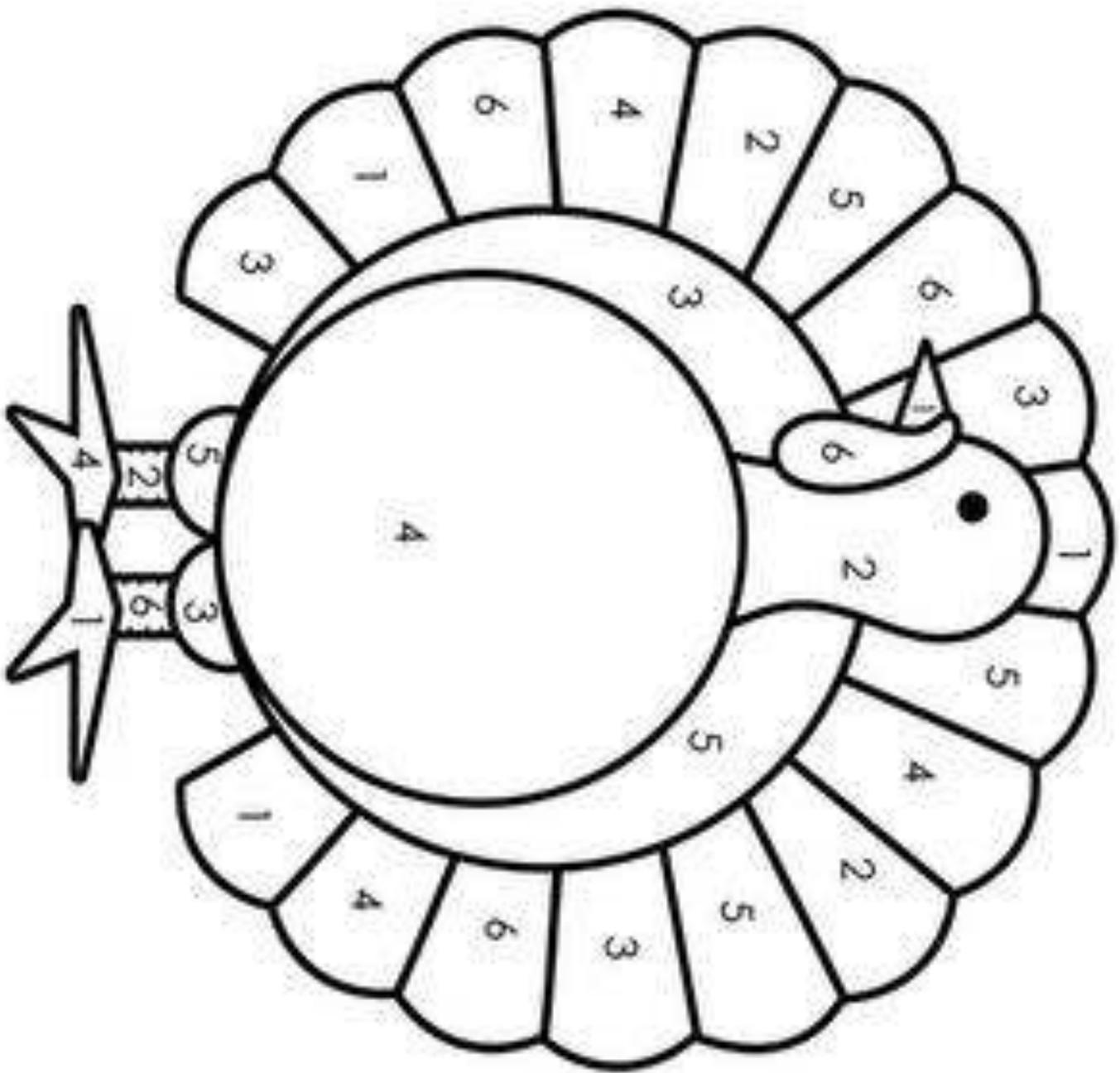
Keep rolling and chance losing your points- or play it safe and pass the die to the next player and keep all the points you rolled. The first player to reach 20 points wins.



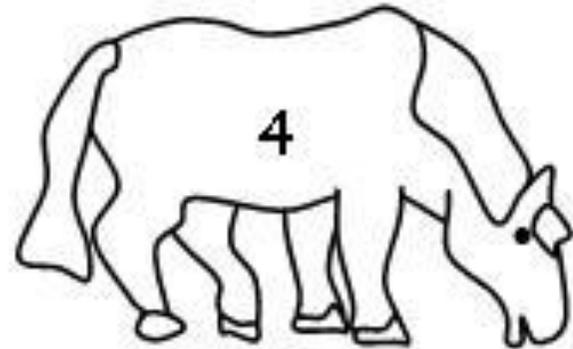
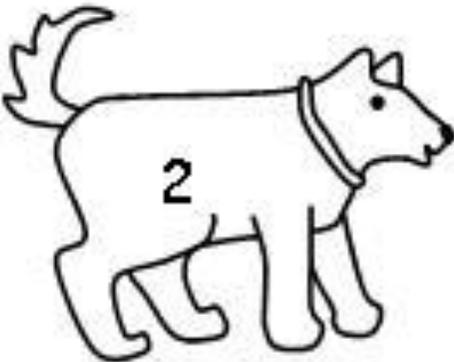
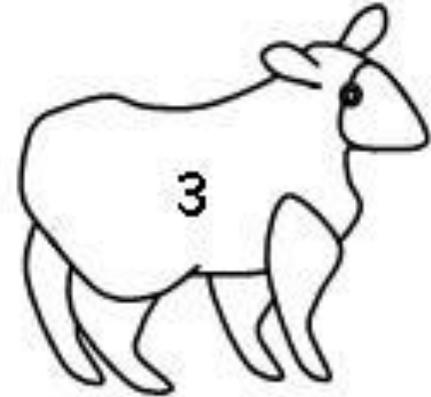
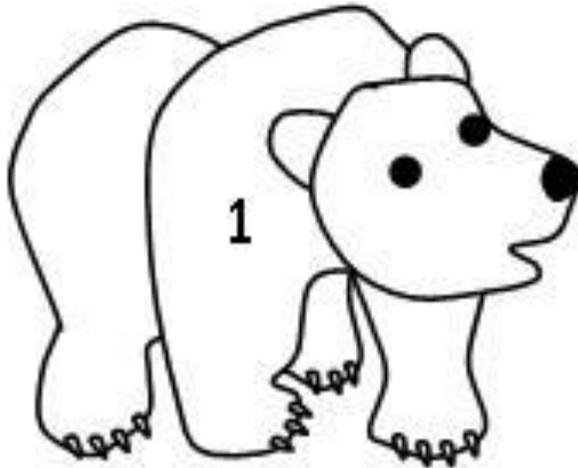
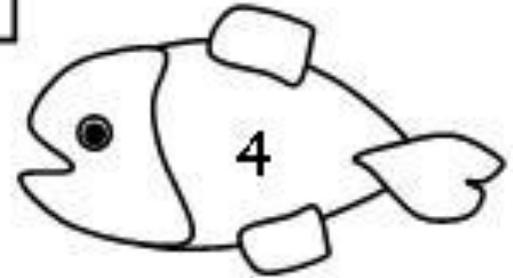
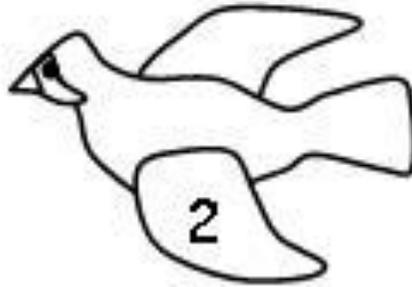
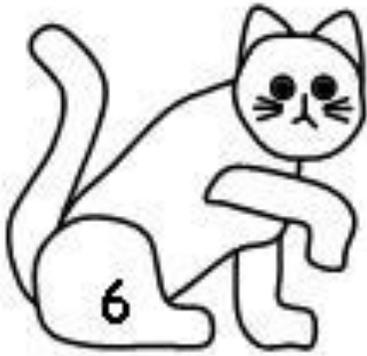
Must draw the body first







Brown Bear Roll and Color



Have fun cooking

Can you learn all these cooking skills before you come back to school?

Grating

How to grate cheese

1. Have a look at which side of the grater to use.
2. Emphasise the angle with which you hold the cheese before you begin grating.

Position the other hand on the handle of the grater.

3. Begin grating the cheese.

When you have had a go with cheese, you could then begin grating harder items like carrots

Here is a video you could watch

<https://www.youtube.com/watch?v=v4keMFH7CIU>

Chopping

Can you learn how to hold a knife safely and chop up some vegetables for your dinner?

1. Get your adult to show you around the knife. Learn how to identify which is the sharp edge and which is the blunt edge.
2. Get your adult to show you how to cut by placing the point of the knife on the board first and then levering the knife downwards from there.



Here is a website about knife safety

<https://www.twinkl.co.uk/resource/t3-dt-30-knife-safety-in-a-working-kitchen-activity-pack>

Peeling

Step 1: Set up your stance. Hold carrot at a 45° angle on a cutting board. ...

Step 2: Peel the bottom half of the carrot. Start the vegetable peeler at the middle of the carrot and press downward toward the cutting board. ...

Step 3: Peel the top.



Here is a video you could watch about how to peel
<https://www.youtube.com/watch?v=PMx5tzTwKjY>

Here are some websites with ideas for cooking with children

<https://www.bbcgoodfood.com/recipes/collection/kids-cooking>

<https://cookingwithkids.org/>

<https://www.kids-cooking-activities.com/>

<http://spatulatta.com/recipe-index-2/>

Weighing

Can you weigh out ingredients for your dinner?

1. Find out how much you need by looking at the number on the recipe.
2. Carefully pour in the ingredients into a bowl.
3. Look at the number and stop when you have the right amount



Pizza

You will need

300g strong white flour

1tsp instant yeast

1tbsp Olive Oil

For the sauce

1tbsp olive oil

2 crushed garlic cloves

200ml passata

Toppings

Mozzarella

What ever you like on your pizza



1. Tip the flour into a bowl, then stir in the yeast and 1 tsp salt. Make a well in the centre and pour in 200ml warm water (make sure it's not too hot) along with the oil. Stir together with a wooden spoon until you have a soft, fairly wet dough.

2. Tip the dough out onto a lightly floured surface and knead for 5 mins until smooth. Cover with a tea towel and set aside for an hour or so or until the dough has puffed up and doubled in size. You can also leave the rough, unkneaded dough in the bowl, cover with a tea towel and leave in the fridge

Easy Veggie Wraps

You will need

Torilla wrap

Cumin

Yogurt

Lemon

Mixed root vegetables (Carrot, beetroot sweet potato)

Seasoning

How to make your wrap

1. Peel and grate up all the vegetables keeping the beetroot separate
2. Stir together yogurt and lemon juice and season
3. Lay the wrap out and put the vegetables on top
4. Put the yogurt on top and wrap it up!



Simple Stir Fry

You will need

500g of vegetables (carrots, baby corn, broccoli, courgettes, red peppers)

1tbsp oil

1 garlic glove

1cm fresh ginger

1 ½ tbsp of soy sauce

2tbsp sweet chilli sauce

200g of chicken

200g egg noodles



1. Finely chop or slice the vegetables into pieces roughly the same size. Slice the carrots diagonally, slice the baby corn, cut the broccoli into small florets, then slice the stem, and finely slice the peppers, cabbage or pak choi. Heat the oil in a large frying pan or wok, then fry the garlic and ginger for 1 min

2. Add the veg and toss to coat. Fry for 2-3 mins, then add the soy sauce and chilli sauce, if using, and mix well. Cook for 2-3 mins more until the veg is tender. Stir through the cooked chicken and heat through. Serve over the noodles.

overnight and the dough will continue to prove on its own.

3. Meanwhile, make the tomato sauce. Put the oil in a small pan and fry the garlic briefly (don't let it brown), then add the passata and simmer everything until the sauce thickens a little. Leave to cool.

4. Once the dough has risen, knead it quickly in the bowl to knock it back, then tip out onto a lightly floured surface and cut into two balls. Roll out each ball into a large teardrop that is very thin and about 25cm across (teardrop shapes fit baking sheets more easily than rounds).

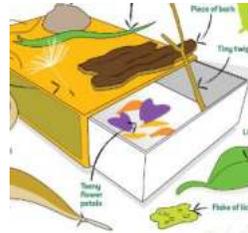
5. Heat oven to 240C/220C fan/ gas 9 with a large [baking sheet](#) inside. Lift one of the bases onto another floured baking sheet. Smooth the sauce over the base with the back of a spoon, scatter over half the mozzarella, drizzle with olive oil and season. Put the pizza, still on its baking sheet, on top of the hot sheet in the oven and bake for 8-10 mins until crisp.

Outdoor Learning

Tiny Treasure Hunt

Grab a raisin box and go on the hunt for tiny treasures to fit inside it. Look out for...

- A blade of grass
- A tiny pebble
- A piece of bark
- A tiny twig



Please only collect things that are already on the ground, and make sure no snails are living in the shells you find

Sound Safari

Set off on a sound hunt! Shh! What can you hear?



Make a list of the sounds that you can hear

Twig Skeleton

Terrifying twig skeleton!
Create a creepy twig skeleton and spook your friends



Cloud Gazing

Choose a day when you will be relaxed lying on the ground looking up at the sky.

- Find a comfortable spot. In the garden, in the park, at the beach.
- Look at the clouds in the sky.
 - Can you see a face? Can you see a unicorn? Can you see a fairy-tale castle? Can you see a whale or a dolphin? What do the clouds make you think of? • Can you make up stories to link the different things you can see amongst the clouds?



Spotting Game

Make a list of things to find out on a walk or in the garden e.g. a tree, a bird, a petal, something 'yellow', something that starts with every letter of the alphabet (A-Z), a snail, a leaf

You could take photos and create your own spotters' guide!

Garden Potions

Put some water in a container or small bucket.

Create your own fantastic potion, adding any natural objects you can find. Write a list of what you used to make your potion!



Fine Motor Skills Practice

Threading

Use string to thread penne pasta and make a necklace. Can you paint the pasta and make your necklace colourful? Could you make a necklace for someone in your family? How many pieces of pasta did you need for your necklace?



Spilt Tea

Ask your adult to help you find a few different sized containers. Use a small spoon to help you refill the tea. The 'tea' could be sand, flour, compost or even actual tea!

How many spoonful's' can you fill without spilling it?



Pegs

Use clothes pegs to pick up pom poms, pasta, kidney beans, Lego or any other small items you can find around the house.

How many can you pick up in one minute? Can you transfer them from 1 bowl to another?



Oven Shelf

Use an oven shelf and string, pipe cleaners or strips of old material to thread through the oven tray. Remember to go up and down to thread the string or pipe cleaner through. How many different colours can you add?



Colander Threading

Use pipe cleaners, string or cooked spaghetti to thread them through the colander. How many can you thread in one minute? Ask an adult to time you!



Cutting

Using scissors correctly is a great way to build up your muscles. You can cut cooked spaghetti, magazines, newspapers and even wrappers from snacks and treats. Remember to ask your adult before you begin to cut so they can supervise you.



Nursery Mark Making Homework

Try and do one mark making activity every day. Here are some fun ideas to get you started!

Rainbow Writing Salt Sensory Tray

Sensory trays are a fun way to practise writing and mark-making skills. Could you make your own rainbow salt tray and practise writing letters/words?

To make your rainbow salt sensory tray

1. Find a tray or a shallow box with a low edge.
2. Find a piece of paper and colour it with brightly coloured stripes.
3. Stick your rainbow striped piece of paper onto the bottom of your tray.
4. Pour a very thin layer of fine salt into your tray and you're ready for writing!



Art Gallery

Make an area in your house to display your child's art work.

Ask your child to explain what the drawing is of.

Write a label underneath.

Ask your child to write their name onto their work.

Mark making with cars



Painting With Cars



You can use cars to make marks! Use cello tape or masking tape to stick felt tip pens on the back of the car then watch as you leave marks behind when you play. You can also put the cars in paint and drive them around the paper!

Tin foil mark making



Cover a chopping board with tin foil. Use crayons and felt tip pens to make marks.

Encourage your child to make big marks- straight lines, curved lines & zigzag lines.

Water mark making



Fill a pot or bucket with water.

Use an old paint brush, washing up sponge or a scrubber to make marks outside.

Encourage large shapes or patterns.

Can they write their name & then watch it disappear?

Writing Check list

- Make marks everyday- this is the first steps to writing.
- Make it fun
- Give it a purpose i.e. write a shopping list, a postcard saying hello or a label.
- Focus on the main sounds in the words.
- Lots of praise & celebration of all marks.

Reception Mark Making Homework

Try and do one mark making/writing activity every day. Here are some fun ideas to get you started!

Nature paint brushes



Make your own nature paint brushes and use them to write words and paint patterns.

Writers workshop

Make an area in your house to display your child's work. Ask your child to explain what they have written- Praise and identify 1 thing they could do to make it even better.
Have they used their phonics to write the words?
Have they remembered finger spaces?
Have they put a full stop at the end?

Mark making on boxes



Cover some boxes with paper and use pens, crayons and pencils to mark make, write and draw pictures.

Give writing a purpose

Each day set a reason to write.

- It could be a label, list or a sentence.
- Shopping list
- List of games they like to play.
- Instructions for making playdough.
- A postcard or a letter to a friend or family member
- A birthday card.
- Make a meal together and then write the recipe together.

Water mark making

Writing Check list

