

Maths Planning and Ideas



Week Commencing: 01/06/20 - Position and Direction

Year Group: I

	Monday	Tuesday	Wednesday	Thursday	Friday
	LC: Can you describe turns?	LC: Can you describe position?	LC: Can you describe position?	LC: Can you solve problems related to turns and position?	LC: Can you solve problems related to turns and position? (continued)
Activity	<p>Starter: Funky Mummy Practise number bonds of 10. https://www.ictgames.com/mobilePage/funkyMummy/index.html</p> <p>Main: Children use the language 'full', 'half', 'quarter' and 'three-quarter' to describe turns made by shapes or objects. <i>See help sheet for guidance.</i></p> <p>Children should practically turn objects in different directions. They could investigate turning in different directions (clockwise, anti-clockwise).</p> <p>Key Questions: <i>What is each turn called? Is there only one direction objects can turn? Does it make a difference which way the object is turned?</i></p>	<p>Starter: Place Value Basketball - Practise numbers up to 49 or 99 and shoot some hoops. https://www.topmarks.co.uk/learning-to-count/place-value-basketball</p> <p>Main: Children use 'left', 'right', 'forwards' and 'backwards' to describe position and direction. They will describe the position of objects and shapes from different starting positions. You could use board games such as Snakes and Ladders and Twister to explore positional language practically here.</p> <p>Key Questions: <i>What are the different directions we can move in? How would I get to ___ ? How do I get from ___ to ___?</i></p>	<p>Starter: Paint the Squares - Practise counting forwards and backwards in twos (up to 20), fives (up to 50) and tens (up to 100). https://www.topmarks.co.uk/learning-to-count/paint-the-squares</p> <p>Main: Children will build upon directional language 'left' and 'right'. They will describe position using: 'top', 'in between', 'bottom', 'above' and 'below'.</p> <p>Key Questions: <i>What is to your left? What is in front of you? What is behind you? What is to the right of this object? Can you put this object above/below that object?</i></p>	<p>Starter: Coconut Odd and Even - Children have learned that even numbers all end with a 2,4,6,8, or 0. https://www.topmarks.co.uk/learning-to-count/coconut-odd-or-even</p> <p>Main: Over the next 2 days, there are a number of problem solving and reasoning activities for your child to try. These activities are designed to challenge them further, deepen their understanding, and help consolidate the key concepts taught for turns and directions.</p> <p>Independent Work: See Thursday resources.</p>	<p>Starter: Daily 10 Practise your mental maths: https://www.topmarks.co.uk/math-games/daily10</p> <p>Main: Continue with Problem solving activities from Thursday. If you have completed these, you could have a go at one of these games to practise turns and directions:</p> <ul style="list-style-type: none"> -Beebot (free app for phone or tablet. -Kodable https://game.kodable.com/hour-of-code -Lightbot https://lightbot.com/flash.html <p>Independent Work: See Thursday resources.</p>

What will the object look like before or after the turn?

Independent Work:

Using toys or shapes you have at home, give your child instructions, using quarter turn, half turn, three-quarter turn, and full turn.

eg.

Can you turn your shape a quarter turn?

Can you turn your toy a half turn?

Can you predict/draw what your shape will look like if you did a three-quarter turn?

What if you turned it the other way? Would it look the same?

Challenge - These are optional if you have completed the practical activity.

Independent Work:

In your garden or your home, you could make a small grid using string or masking tape etc. Or you could use a Twister mat if you have it.



Give your child directions to move through the grid, eg.
-Take 3 steps forward.
-Take 1 step to the left.
-Take 1 step backward and 2 to the right. etc.

Challenge - choose a starting place and place an object somewhere on the grid - can your child give instructions to get to the object?
You could include obstacles to make it more difficult.

Can you create your own instructions to build a Lego tower?

Independent Work:

See Wednesday resources.

Position and Direction

Knowledge Organiser

Describing Movement



quarter turn



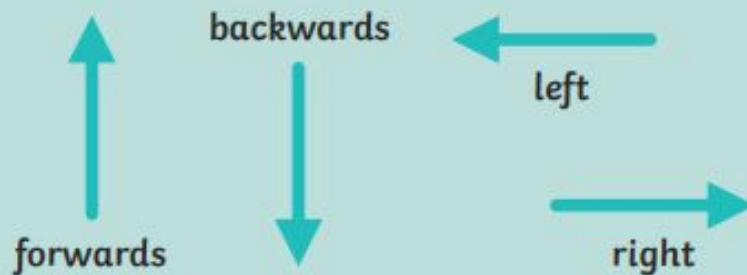
half turn



three-quarter turn

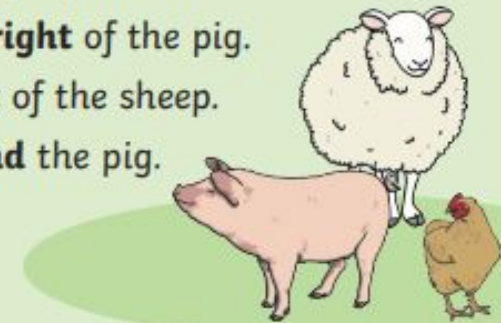


full turn



Describing Position

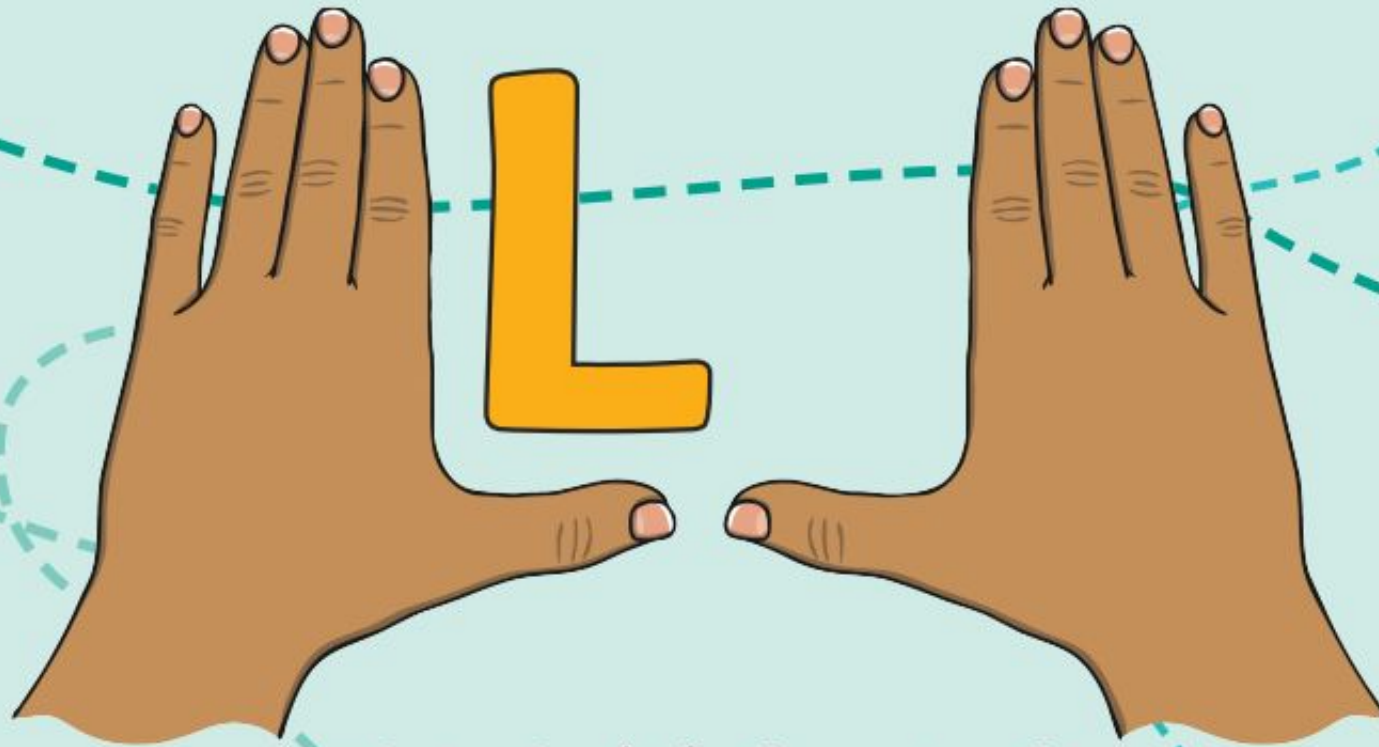
The pig is to the **left** of the hen.
The hen is to the **right** of the pig.
The pig is in **front** of the sheep.
The sheep is **behind** the pig.



The duck is **below** the doll.
The car is **above** the doll.
The car is on the **top** shelf.
The doll is on the **middle** shelf.
The duck is on the **bottom** shelf.
The doll is **between** the car and the duck.



Left Hand and Right Hand



Think 'L' for Left

Monday Challenge - Describing turns

Describe Turns



Draw a line to match the turns with the tiles.



half
turn

three-quarter
turn

quarter
turn

whole
turn



The tile made a turn.

Name the turns that you make with your toys.

Describe Turns



True or false?

My rocket tile has
made a half turn.



If the boat tile made a whole
turn, it would be on its side.



Which way will my kite tile face
if it makes a three-quarter turn?



Is there more than 1 answer?

Wednesday - Describe Position

Sit in the middle of your garden or a room in your house.

What can you see around you? Write or draw what you can see in front, behind, to the left and right.

<u>In front of me</u>	<u>Behind me</u>	<u>To the left of me</u>	<u>To the right of me</u>

Challenge - Use blocks, lego, or shapes.

Use 5 cubes to build a tower.

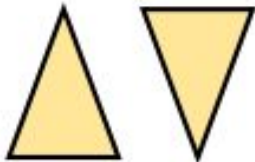
- Start with a yellow cube.
- Place a blue cube on top of the yellow cube.
- Place a white cube below the yellow cube.
- Place a red cube on the top of the tower.
- Place the green cube in between the yellow and white cube.

Are these statements correct?
Is there more than one answer?
Explain how you know.

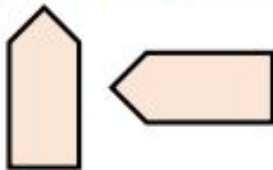
The shape has made a quarter turn.



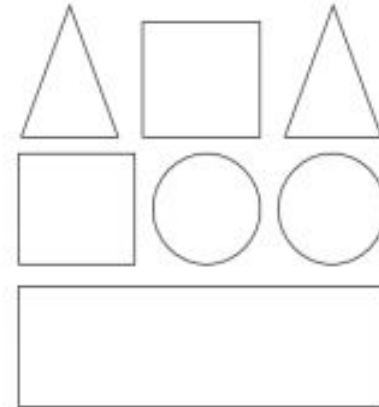
The shape has made a half turn.



The shape has made a three-quarter turn.



Use the clues to colour the shapes.



- The circle in the middle is blue.
- The circle on the right is red.
- The shape up from the right circle is green.
- The shape down from the circles is green.
- The square to the left of the green triangle is red.
- The four-sided shape up from the rectangle is blue.
- The triangle on the left is red.

Complete the sentences using 'left' and 'right' to describe the position of the coins.

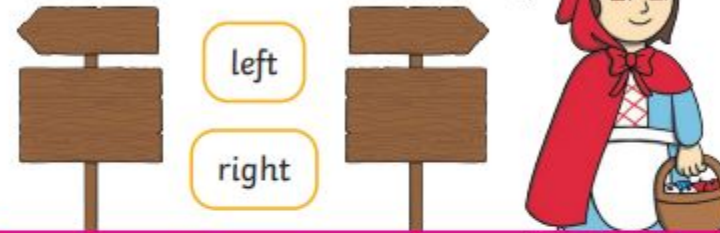


The £1 coin is to the _____ of the 1p coin.
 The 50p coin is to the _____ of the 1p coin.
 The 2p coin is to the _____ of the 50p coin.

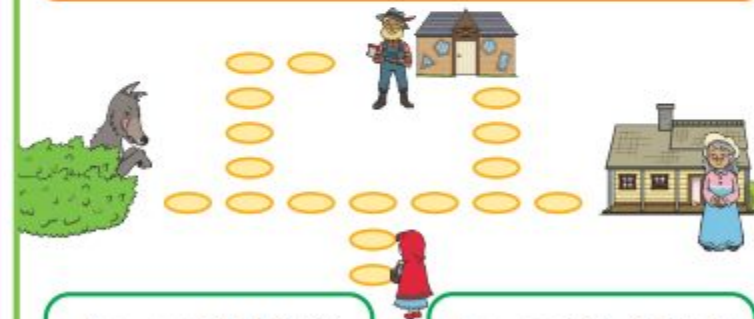
Describe Position (1)



Draw lines to match the labels to the sign posts.



Which directions lead to Grandma's house?



forward 3, left 3

forward 3, right 3

How can she get to the woodcutter's home?

Is there another way?

Describe Position (1)



Draw the objects in the correct place.



For each object,
start on the star.



backwards 1, left 2



backwards 1, right 1



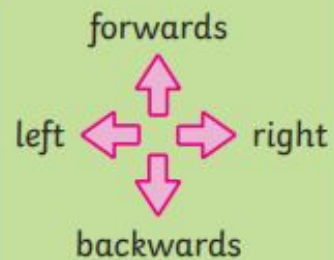
forwards 2, left 2



right 2, forwards 2



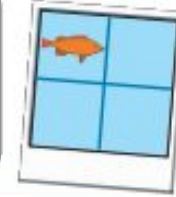
left 3, forwards 1



Describe Position (2)



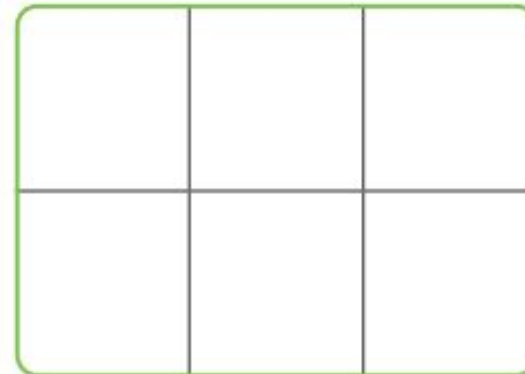
The fish is in the
bottom right.



Do you agree?

Can you prove it?

Can you draw the pictures on the grid?



Draw top right.

Draw bottom left.

Draw below .

Draw above .

Draw between and .

Where can I complete further work?

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[Classroom Secrets](#) – Free Maths, Reading and Grammar home learning packs and interactive resources for all ages.

[White Rose Maths](#) – Free Maths home learning resources for all ages. Watch the videos and try the questions.

[Primary Stars](#) – Free Maths home learning packs for Year 1 and 2.

[BBC Bitesize Primary](#) – Free learning resources available for KS1 and KS2 across all subjects.

[I See Maths](#) – Free daily home maths lessons hosted by Gareth Metcalfe. Follow the link for videos, information and resources.

[Top Marks](#) – Free educational resources and games for English and Maths.

[ICT Games](#) – Free educational resources and games for English and Maths.