Dear All

I hope this letter finds you all safe and well.

This pack of learning is based around direction and movement.

I hope you all find some fun activities amongst this work pack.

Peak with you all soon.

Mrs Holman

Here are some sites that you can visit.

https://mathszone.co.uk/category/shape/direction-movement-logo/

https://www.smartboardingschool.com/position-and-direction-4---5

https://www.topmarks.co.uk/maths-games/7-11-years/shape-position-and-movement

https://www.bbc.co.uk/bitesize/clips/z7kwmp3

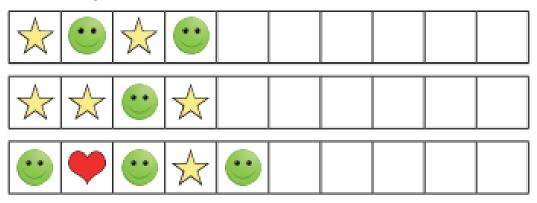
https://nrich.maths.org/9023

https://www.bbc.co.uk/sport/av/supermovers/42626760

Can you give directions to an adult in your home to get from one room to another? How about writing directions to get from your home to your local shop? Draw your own treasure map and ask someone to tell you were each item is on it?

Find the Pattern

Continue these patterns.



Rosie creates a pattern with coloured beads. Can you draw her pattern on the bead string? It goes yellow, yellow, blue, yellow, yellow, blue...



What colour will the 12th bead be?

What colour will the 20th bead be?

Rosie decides to put a green bead between each of the two yellow beads in her pattern. What does her bead string look like now?



What colour will the 12th and 20th beads be now?



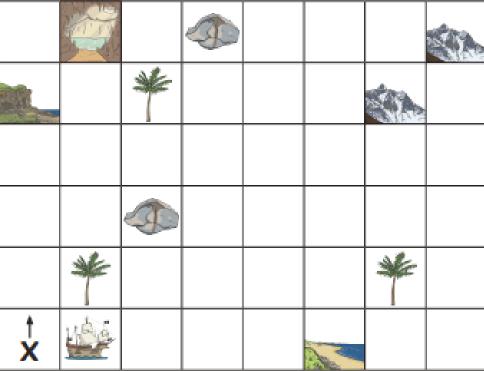
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Treasure Map

Help Pirate Pete find his way to the buried treasure, by following the instructions on the map.





Page 3 of 7

Start at X.

Move 2 squares forward. Rotate clockwise.

Move 1 square forward. Rotate anti-clockwise.

Move 1 square forward. Rotate clockwise.

Move 3 squares forward. Rotate anti-clockwise.

Move 2 squares forward. Rotate clockwise.

Move 2 squares forward. Draw the treasure on the map!







Rotating Arrows

Start with	Do this	It will look like this:
	quarter turn clockwise	
	half turn anti-clockwise	
	full turn clockwise	
	quarter turn anti-clockwise	
	half turn clockwise	
1	three quarter turn anti-clockwise	
	three quarter turn clockwise	





Turtle Turns Activity

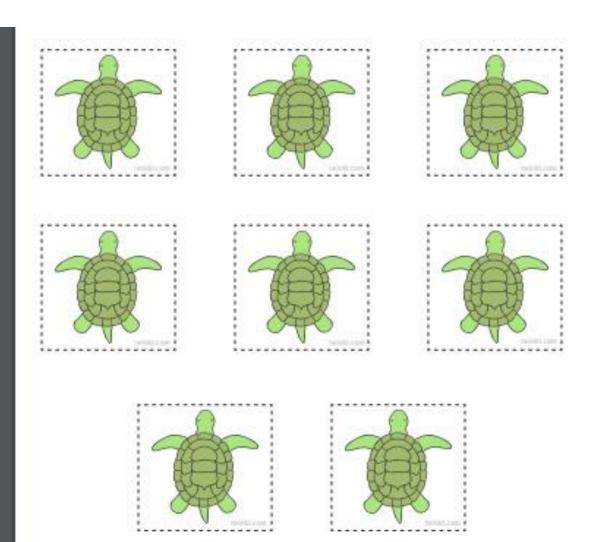
I can make clockwise and anticlockwise turns.

In pairs, take it in turns to roll a dice. The first to turn all their turtles correctly is the winner.

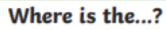
A quarter turn clockwise	A whole turn clockwise
A half turn anticlockwise	A three-quarter turn clockwise
A three-quarter turn anticlockwise	
	A half turn anticlockwise A three-quarter turn













Where is the ...?



Where is the ...?



Where is the ...?



Where is the ...?



Where is the ...?



Where is the...?



Can you find two ways to say where the parrot is?

Where is the ...?



Can you find two ways to say where the sword is?

Where is the ...?



Can you find two ways to say where the pirate ship is?

Where is the ...?



Can you find two ways to say where the pirate flag is?

Where is the ...?



Can you find two ways to say where the treasure chest is?

Can you tell me how to get to the treasure chest?





Describe Position (2)

Adult Guidance with Question Prompts



Children describe the position of images, objects and themselves. In addition to 'left' and 'right', children learn to use the terms 'above', 'below', 'top', 'bottom' and 'between'. Children search for ocean treasures and describe the places where they found them. They then read clues to identify where to find sea creatures.

What can you see on your left/right?

What can you see on the left/right of the picture?

What is between the shell and the anchor?

Can you write the word in the box below each picture?

Can you say these words in sentences to tell me where to find each item?

The shell is ... The anchor is ... The chest is ...

What can you see above/below you?

What colour is the fish is above the silver fish?

What colour is the fish is below the blue fish?

Can you show your answer by writing the name of the colour or colouring the box in the space?

Let's read the sentence out loud.

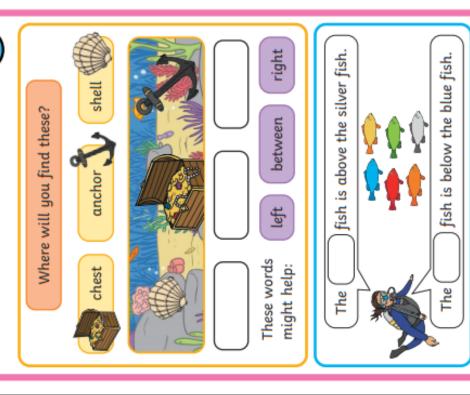
Can you think of another way to describe the position of the green/red fish?

Adult-led activity:

Play noughts and crosses with a difference. Describe to your partner where to make a mark on the grid.



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Describe Position (2)



Describe Position (2)

Adult Guidance with Question Prompts



Children describe the position of images, objects and themselves. In addition to 'left' and 'right', children learn to use the terms 'above', 'below', 'top', 'bottom' and 'between'. They help the diver describe the position of the fish in the picture she has taken and follow directions to complete an ocean picture. Children create their own pictures by taking turns to describe what to draw and where to place it on the page.

The diver thinks the fish is in the bottom right of the picture.

Do you agree? Can you prove it?

How would you describe where the fish is?

Is there another way you can describe its position?

Can you follow the instructions to draw the picture?
Can you show me where you will draw the sun/fish/pebble/cloud/bucket?

Can you think of another way to describe their positions? What could you draw between the sun and the cloud?

Adult-led activity:

Create an 'under the sea' picture with a friend.

Take turns to direct each other.

What should they draw? Where should it go?

Keep going until your picture is complete.

Can you think of another picture you can create together?



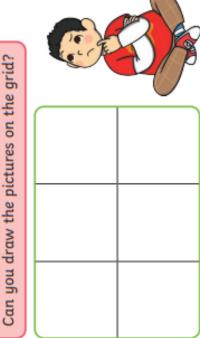




Draw

Describe Position (2) The fish is in the bottom right.

Do you agree? Can you prove it?











above -



Describe Position (2)

Adult Guidance with Question Prompts



Children describe the position of images, objects and themselves. In addition to 'left' and 'right', children learn to use the terms 'above', 'below', 'top', 'bottom' and 'between'. Using these terms to describe where to find things in everyday life is a great way to practise this skill. Here, children help the diver find safe places to swim in the hazardous ocean. They find different ways to describe where to find the treasure chest. Children then take turns to be the instructor and the builder as they use positional language to create models together.

The diver is looking for somewhere safe to swim.

What hazards can you see in the ocean?

Which parts are clear?

Can you tell him where it is safe to swim at the moment?

What can you see in this picture?

How would you describe the position of the treasure chest?

Are there more ways that you could describe where it is? How will you know if you have found them all?

Can you describe the position of a different object?

Can your partner guess which object you are describing?

Adult-led activity:

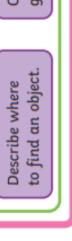
Take turns to be the builder and the instructor.

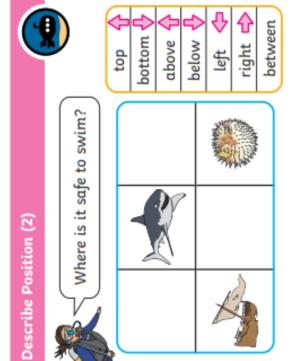
The builder follows the directions given by the instructor.

Use construction toys or recycled materials to make a model.

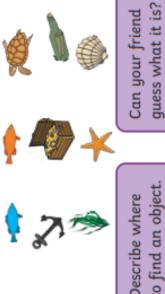












	11011			
cey Vocabulary		Describing Str	Describing Straight-Line Movement	ıt
orwards	•	9	ď	north
ackwards	sp		0	Z
eft	ım arı			
ight	left right			N N
ıorth	back	Left		west east
outh	ward	The han	The hand that makes) "
ast	s	[e]	left hand.	south
vest			1	
uarter turn		Desci	Describing lurns	
ıalf turn			clockwise	anticlockwise
hree-quarter turn			T gt III	1 21 11
lockwise				5 ° /
ınticlockwise	quarter turn	half turn		
attern			10 11 11 11 11 11 11	
ednence			If the turn is in the same airect hands of a clock, it is clockwise .	If the turn is in the same airection as the hands of a clock, it is clockwise .
twinkl visit twinkl.com	three-quarter turn	full turn	If the turn is in the opposite direction hands of a clock, it is anticlockwise .	If the turn is in the opposite direction to the hands of a clock, it is anticlockwise .

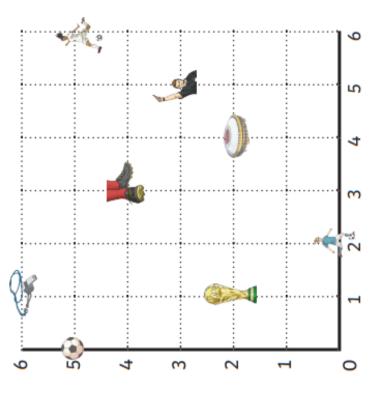
y Vocabulary	Position in the First Quadrant	st Quadrant
1	y-axis.	Coordinates are a useful way to locate a
cool amure	9	position on a map or grid.
quadrant	7	The numbers across the horizontal line of the grid are on the x-axis.
	8	The numbers on the vertical line of the grid are on the y-axis.
x-axis	2	We always read or write the number on the x-axis before the y-axis .
y-axis		The x and y position are written in brackets with a comma.
translation	0 1 2 3 4 5 x-axis.	The coordinate of the blue spot is (2, 3).
vertex	To help you remember which point to read or write first, simply	first, simply
vertices	remember to move along the corridor and up the stairs. In other words, move on the x-axis and then move on the y-axis.	the y-axis.
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Football-Themed Coordinates

I can read, write and translate coordinates in the first quadrant.

Write the coordinates of the football-themed objects. Translate them and write the new coordinate.

Object	Starting Coordinate	Translation	Finishing Coordinate
③		Right 4	
4		Down 2	
*(**		Right 1	
<u>_</u>		Up 3	
0		Left 2	
		Down 5	
		Left 1	
位		Down 2	







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I can read, write and translate coordinates in the first quadrant.

the coordinates of the football-themed objects. Translate them and write the new coordinate.

	bject Starting Coordinate	(3)	4		***		04	⊗ X	域	9. 4
	ing nate									
	Translation	Right 4	Down 4	Right 3, Down 5	Right 6, Up 1	Left 3, Up 4	Left 7, Up 1	Left 1, Down 8	Right 5, Up 2	
	Finishing Coordinate									
10	6	00		9	2		. 3	1		0
										1 2
	1						- 6	•		3
						0				4
		4								5 6
				1 000						7
	4	ß								∞
					Q.					9 10



I can read, write and translate coordinates in the first quadrant.

Write the coordinates of the football-themed objects. Translate them and write the new coordinate.

		0		
		0		
				i
		.		
	Q	9		
				A.
				7
9	2 4	m 1	2	+
Left 1, Down 9	Right 3, Up 7	Right 2, Down 10	Right 11, Down 7	Left 1, Up 6
<u>•</u>	0			A.
	Left 1, Down 9	Left 1, Down 9 Right 3, Up 7	Right 2, Down 10	Right 2, Down 7 Right 11, Down 7 Right 11, Down 7 Stight 11, Down 7



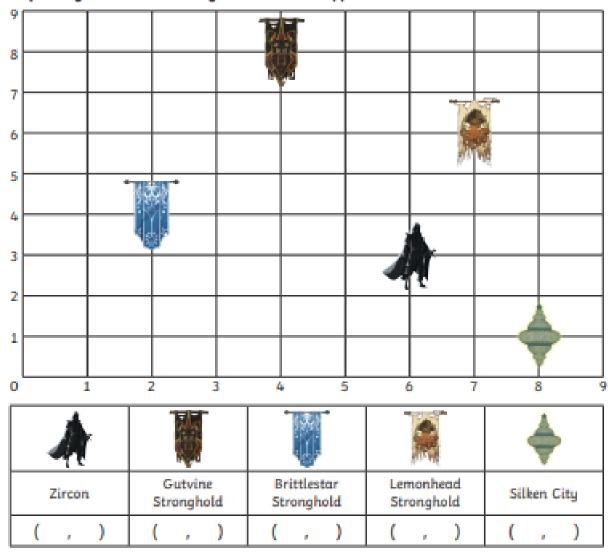
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Catanna's Coordinates

I can describe positions on a coordinate grid in the first quadrant.

Catanna Brittlestar is raiding but needs some support – she can't view the Raider's Peril map. Can you write the missing coordinates to support her?



Catanna is currently located at (3,2). Can you insert a cross to show where she is on the map?

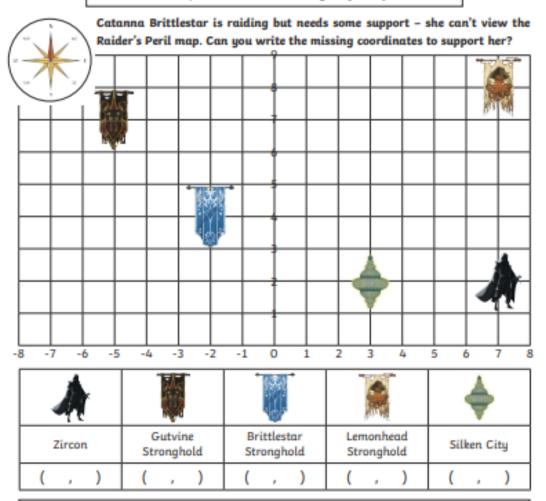
Challenge: Use the words up, down, left and right to direct Catanna to Zircon.





Catanna's Coordinates

I can describe positions on a coordinate grid of two quadrants.



Challenge: Catanna is currently located at (-3,2).

Can you insert a cross to show where she is on the map?

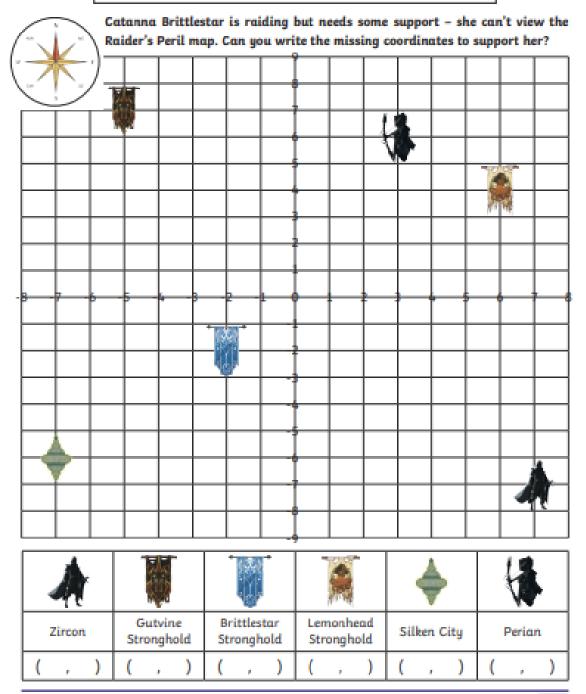
Catanna needs to get to the Lemonhead stronghold. Describe the journey using your knowledge of coordinates and using your compass skills.





Catanna's Coordinates

I can describe positions on a full coordinate grid of four quadrants.







Challenge:	
Catanna travels from the Gutvine stro	onghold to the Silken City. Describe the journey using
your knowledge of coordinates and usi	ing your compass skills.
Catanna travels from the Lemonhead	stronghold to the Brittlestar stronghold. Describe the
journey using your knowledge of coord	linates and using your compass skills.
Catanna travels from the Silken City to of coordinates and using your compas:	meet Perian. Describe the journey using your knowledges skills.





Plot these co-ordinates to make a star picture:

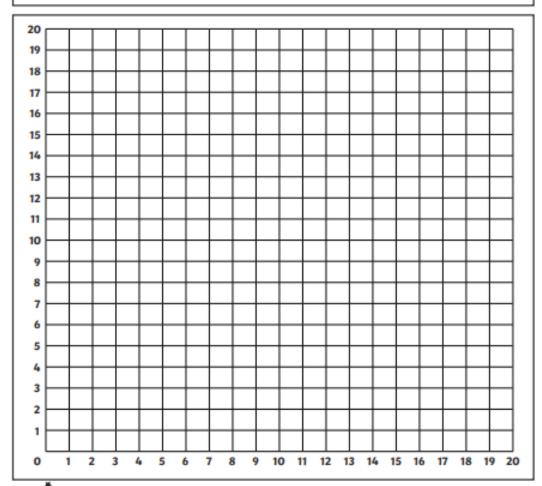
Line 1: (12,13), (18,20)

Line 2: (10,16), (11,12), (16,12), (12,9), (14,4), (10,7), (6,4), (8,9), (4,12), (9,12), (10,16)

Line 3: (14,8), (20,7) Line 4: (8,13), (2,20) Line 5: (10,0), (10,5)

Line 6: (10,20), (12,13), (20,13), (14,8), (17,0), (10,5), (3,0), (6,8), (0,13), (8,13), (10,20)

Line 7: (6,8), (0,7)



*

Coordinate Pictures

Plot these co-ordinates to make a picture of a windmill:

Line 1: (8,13), (7,12), (7,10)

Line 2: (11,10), (11,8), (10,7), (15,2), (17,4), (3,18), (5,20), (10,15), (9,14), (9,12)

Line 3: (13,12), (13,8)

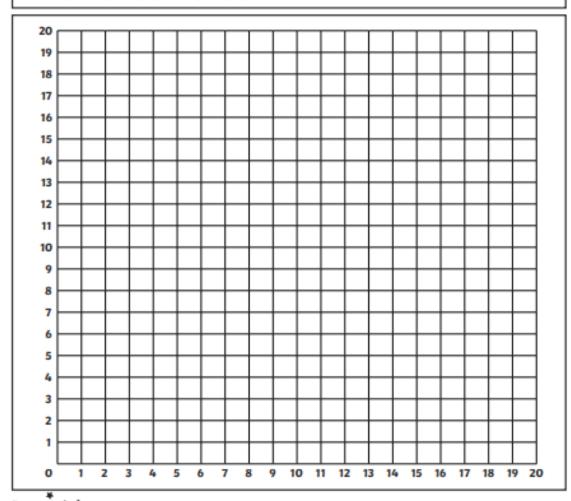
Line 4: (9,14), (11,14), (12,13)

Line 5: (13,4), (13,0), (7,0), (7,8)

Line 6: (8,7), (8,5), (9,5), (9,7), (8,7)

Line 7: (11,12), (13,12), (14,11), (19,16), (17,18), (3,4), (1,6), (6,11), (7,10), (9,10)

Line 8: (11,4), (12,4), (12,2), (11,2), (11,4)





Coordinate Pictures

Plot these co-ordinates to make a picture of a tractor:

Line 1: (15,10), (15,14), (16,15), (16,10)

Line 2: (7,12), (9,14)

Line 3: (4,7), (3,6), (3,5), (4,4), (5,4), (6,5), (6,6), (5,7), (4,7)

Line 4: (15,4), (15,3), (16,2), (17,2), (18,3), (18,4), (17,5), (16,5), (15,4),

Line 5: (8,4), (8,7), (6,9), (3,9), (1,7), (1,4), (3,2), (6,2), (8,4)

Line 6: (11,10), (8,13)

Line 7: (1,17), (12,17), (10,18), (1,18), (1,10), (0,9), (0,8), (2,10), (7,10), (9,8), (9,6), (12,6), (13,10), (10,17)

Line 8: (18,4), (20,5), (20,10), (16,10), (16,8), (17,8), (17,7), (15,7), (15,10), (7,10), (6,11), (3,11), (3,15), (2,15), (2,8)

Line 9: (8,4) (15,4)

