

## To be able to describe movement along straight lines

## Success criteria:

$\checkmark$ I can use terms like "forwards", "backwards", "up", "down", "left" and "right" to describe an object's movement in straight lines on a grid
$\checkmark$ I can explain my reasoning when using terms like "forwards", "backwards", "up", "down", "left" and "right" to describe an object's movement in straight lines on a grid

[^0]To be able to describe movement along straight lines

Starter:
Which one doesn't belong?


Explain your answer.

To be able to describe movement along straight lines

Starter:
Which one doesn't belong?


The parrot doesn't belong as it moves right by two spaces, whereas the penguin, horse and goat move forwards (or up) two spaces.

## To be able to describe movement along straight

## lines

## Activity 1:

Draw a four space by four space grid.
Partner 1 has a counter or cube.
Partner 2 gives instructions like:

- "Move the counter up two spaces."
- "Move the counter left one space."
- "Move the counter backwards three spaces."
(Repeat with children acting as counters on a four by four grid drawn on the playground.)



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## Activity 1:

Draw a four space by four space grid.
Partner 1 has a counter or cube.
Partner 2 gives instructions like:

- "Move the counter up two spaces."
- "Move the counter left one space."
- "Move the counter backwards three spaces."

Teacher / peer assessment


## To be able to describe movement along straight

## lines

Talking Time:
Look at the grid, then complete the sentence below.

The rooster has moved two spaces.


## To be able to describe movement along straight

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Talking Time:
Look at the grid, then complete the sentence below.

## The rooster has moved backwards two spaces.



## To be able to describe movement along straight

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Talking Time:
Look at the grid, then complete the sentence below.

The rooster has moved one space.


## To be able to describe movement along straight

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Talking Time:
Look at the grid, then complete the sentence below.

## The rooster has moved left one space.



## To be able to describe movement along straight

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Talking Time:
Look at the grid, then complete the sentence below.

The rooster has moved two spaces.


## To be able to describe movement along straight

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Talking Time:
Look at the grid, then complete the sentence below.

The rooster has moved right two spaces.


## To be able to describe movement along straight

## lines

Talking Time:
Look at the grid, then complete the sentence below.

The rooster has moved three spaces.


## To be able to describe movement along straight

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Talking Time:
Look at the grid, then complete the sentence below.

The rooster has moved forwards three spaces.


## To be able to describe movement along straight

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## Activity 2:

Look at the grids, then complete the sentences below.

|  |  |  |  |
| :--- | :--- | :--- | :--- |
|  | $\langle$ |  |  |
|  |  |  |  |
|  |  |  |  |



The goat has moved one space.

The goat has moved three spaces.

## To be able to describe movement along straight

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## Activity 2:

Look at the grids, then complete the sentences below.


The goat has moved left one space.


The goat has moved three spaces.

## To be able to describe movement along straight

 lines
## Activity 2:

Look at the grids, then complete the sentences below.


The goat has moved left one space.


The goat has moved backwards three spaces.

## To be able to describe movement along straight

 linesTalking Time:
Match each image to its direction instructions.


## move down <br> 1 space

## move right 2 spaces

## To be able to describe movement along straight

## lines

Talking Time:
Match each image to its direction instructions.

move left
3 spaces

## To be able to describe movement along straight

## lines

Talking Time:
Match each image to its direction instructions.

move right
2 spaces
move left
3 spaces

## To be able to describe movement along straight

## lines

Talking Time:
Match each image to its direction instructions.

move right
2 spaces
move left
3 spaces
move up
2 spaces

## To be able to describe movement along straight

## lines

Talking Time:
Match each image to its direction instructions.

move left
3 spaces

## To be able to describe movement along straight

 lines
## Activity 3:

Match each image to its direction instructions.

move up 2 spaces

## move left 3 spaces


move down 3 spaces

## To be able to describe movement along straight

## lines

## Activity 3 :

Match each image to its direction instructions.




move down 3 spaces

## To be able to describe movement along straight

 lines
## Activity 3:

Match each image to its direction instructions.


## To be able to describe movement along straight

## lines

## Activity 3:

Match each image to its direction instructions.


## To be able to describe movement along straight

 lines
## Activity 3:

Match each image to its direction instructions.


## To be able to describe movement along straight

## lines

## Talking Time:

Place arrows on the grid to show:

- The goat moving backwards two spaces.
- The rooster moving right three spaces.
- The parrot moving forward one space.
- The penguin moving left by one space.



## To be able to describe movement along straight

## lines

## Talking Time:

Place arrows on the grid to show:

- The goat moving backwards two spaces.
- The rooster moving right three spaces.
- The parrot moving forward one space.
- The penguin moving left by one space.



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## Activity 4:

Place arrows on the grid to show:

- The goat moving forwards two spaces.
- The rooster moving left three spaces.
- The parrot moving backwards one space.
- The penguin moving right by one space.



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## Activity 4:

Place arrows on the grid to show:

- The goat moving forwards two spaces.
- The rooster moving left three spaces.
- The parrot moving backwards one space.
- The penguin moving right by one space.


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## Activity 5:

What's the same? What's different?


Explain your answer.

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Activity 5:
What's the same? What's different?


Both animals have move three spaces.
The penguin has moved left three spaces, the horse has moved right three spaces.

## To be able to describe movement along straight

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How many different sets of directions can you write to get Astrobee back to Planet Earth?


## To be able to describe movement along straight

 linesActivity 6:
How many different sets of directions can you write to get Astrobee back to Planet Earth?

Example directions:

- "Move down 1 space, move right 3 spaces."
> "Move right 2 spaces, move down 1 space, then move right 1 space."


Teacher / peer assessment

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Evaluation:
I will move three spaces to the left.

Do you agree with Astrobee's directions?
Explain your answer.

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Evaluation:


No, I do not agree. Although Astrobee has moved three spaces, the movement is to the right not to the left.

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