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Success criteria:

- I can use terms like "full turn", "half turn", "quarter turn", "three-quarter turn", "clockwise" and "anti-clockwise" to describe a person's rotation or an object's rotation
- I can explain my reasoning when using terms like "full turn", "half turn", "quarter turn", "three-quarter turn", "clockwise" and "anti-clockwise" to describe a person's rotation or an object's rotation

Starter:

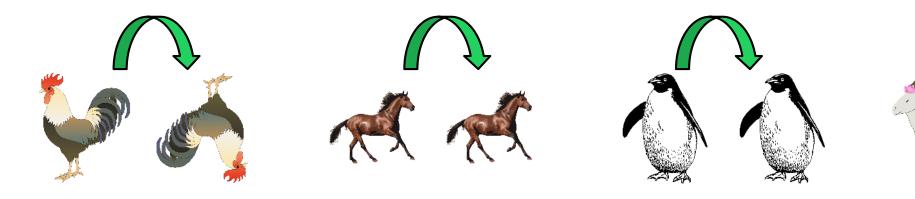
Thinking about full and half turns, which pair of animals doesn't belong?



Explain your answer.

Starter:

Thinking about full and half turns, which pair of animals doesn't belong?



The roosters don't belong as the second rooster has made a half turn, whereas the horses, penguins and goats have made a full turn.

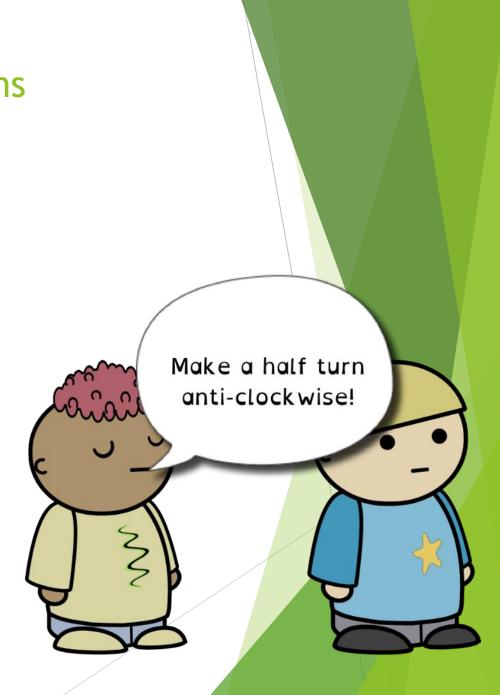
Activity 2:

Rotation Practice!

Partner 1 stands on the spot.

Partner 2 gives instructions, like:

- "Make a half turn clockwise."
- "Make a full turn anti-clockwise."
- "Make a three-quarter turn clockwise."
- "Make an anti-clockwise quarter turn."



Activity 2:

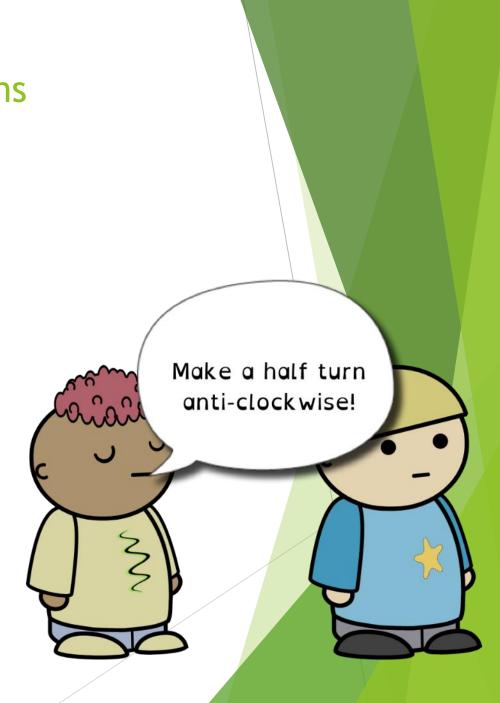
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Teacher / peer assessment



2

Talking Time:

Complete the sentence below.

The watch has made a quarter turn

2

Talking Time:

Complete the sentence below.

The watch has made a quarter turn <u>clockwise</u>.

2

Talking Time:

Complete the sentence below.

The watch has made a threequarter turn _____.

Talking Time:

Complete the sentence below.

The watch has made a threequarter turn <u>clockwise</u>.

2

2

Talking Time:

Complete the sentence below.

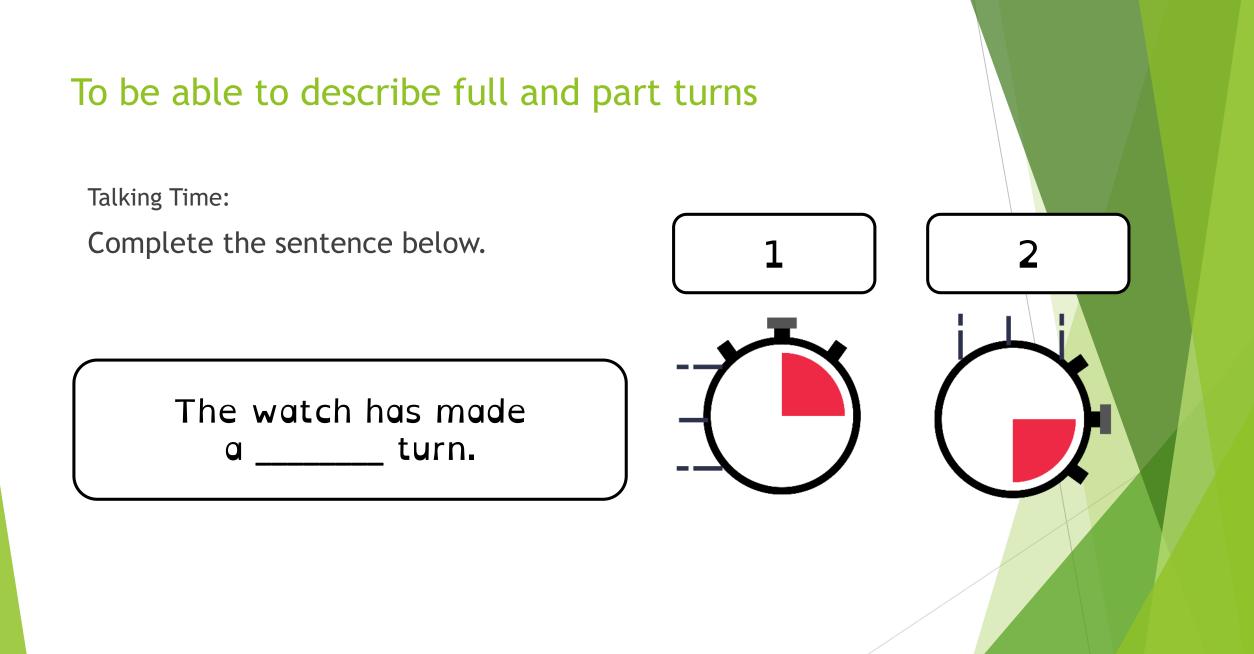
The watch has made a threequarter turn _____.

2

Talking Time:

Complete the sentence below.

The watch has made a threequarter turn <u>anti-clockwise</u>.



Talking Time:

Complete the sentence below.

The watch has made a <u>half</u> turn.

2

2

Activity 3:

Complete the sentence below.

The watch has made a quarter turn

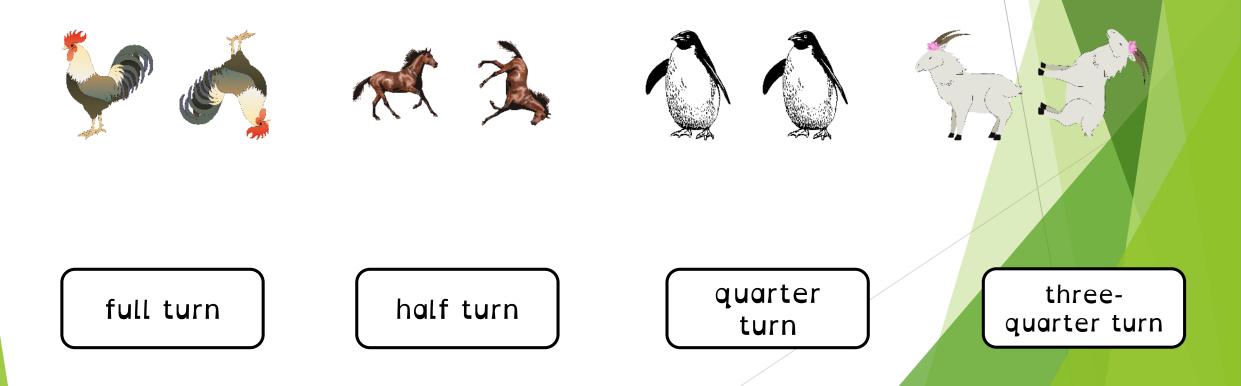
Activity 3:

Complete the sentence below.

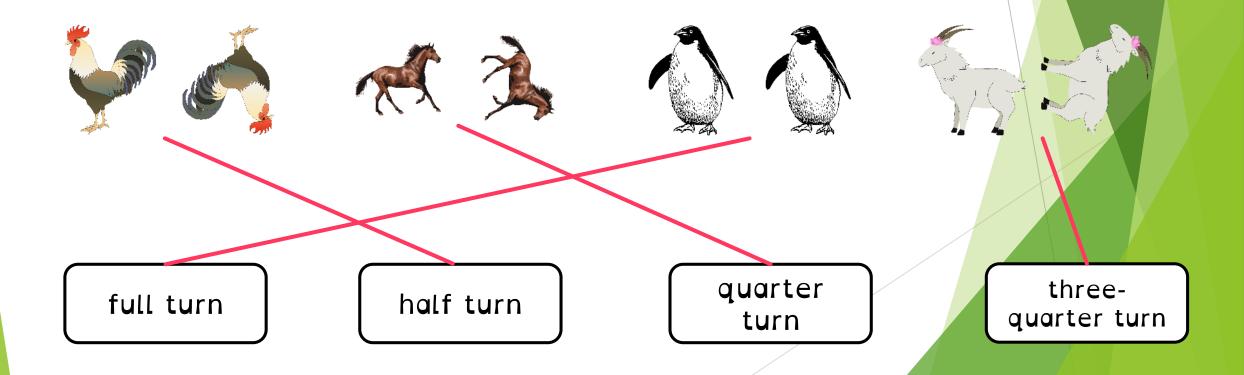
The watch has made a quarter turn <u>anti-clockwise</u>.

2

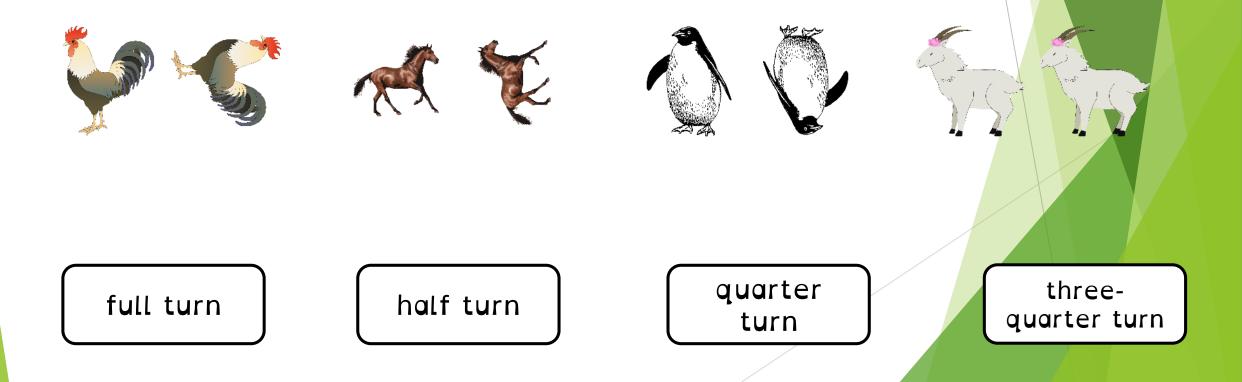
Talking Time:



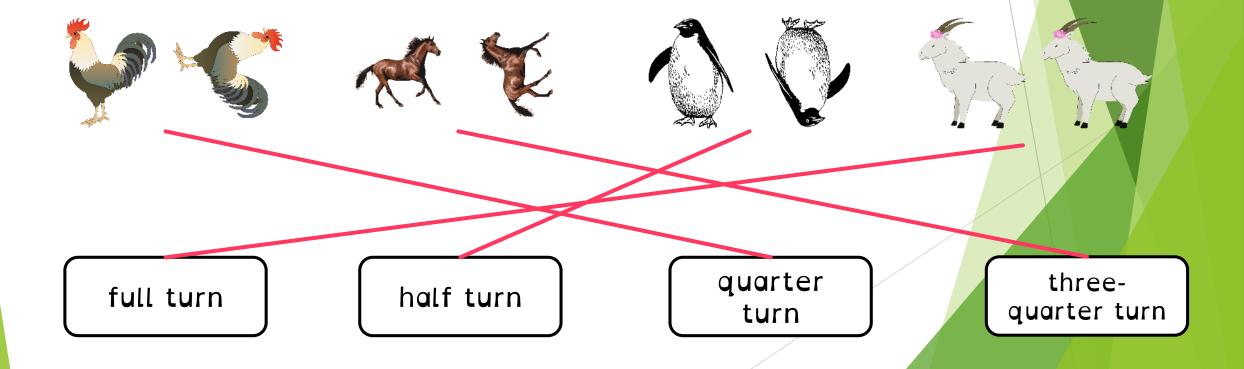
Talking Time:



Activity 4:



Activity 4:



Activity 5:

James says, "If two people start facing in the same direction, then turn in opposite directions, they will not be facing in the same direction after they have turned."

Is James's statement sometimes, always or never true? Provide a sketch to help explain your answer.

Activity 5:

James says, "If two people start facing in the same direction, then turn in opposite directions, they will not be facing in the same direction after they have turned."

Teacher / peer assessment

James's statement is only sometimes true. It depends how far they turn. If they both make a half turn they will face in the same direction. If one person makes a quarter turn clockwise and the other makes a three-quarter anti-clockwise turn...

Activity 6:

Look at the dice shown.

Which possible turns might have been made between Step 1 and Step 2? Explain your answer.

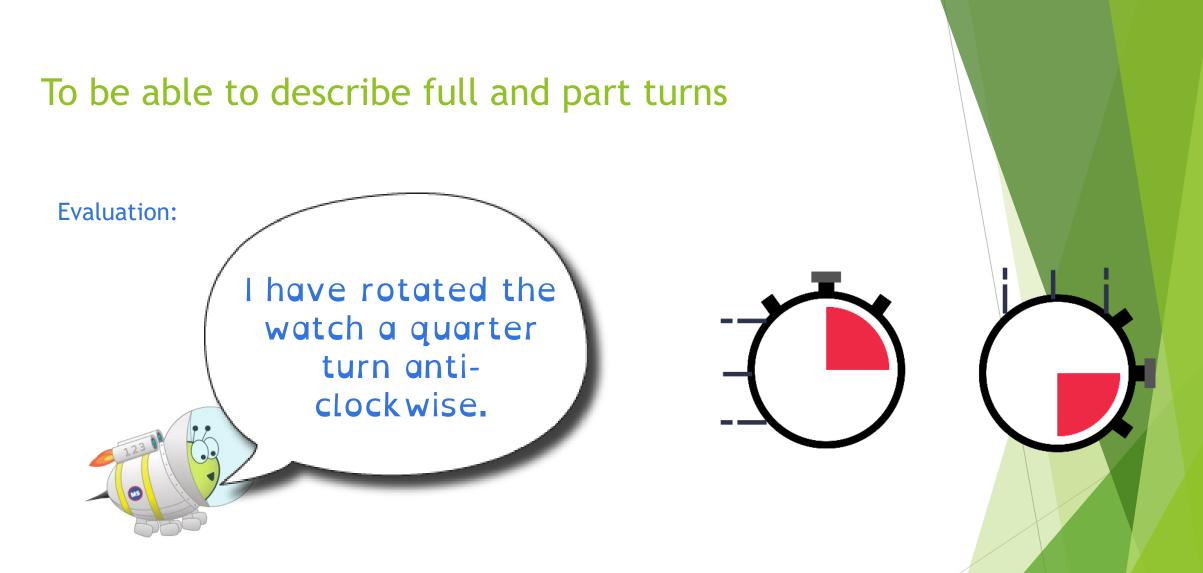
Activity 6:

Look at the dice shown.

The dice might have made a quarter turn (either clockwise or anticlockwise), a half turn (either way), or a three-quarter turn (clockwise or anticlockwise) as the five face of the dice look the same each time a quarter, half or three-quarter turn is made!



Do you agree with Astrobee's directions? Explain your answer in as many ways as you can.



No, I do not agree with Astrobee. Although the watch has made a quarter turn, it has turned clockwise. The red quarter would be in the bottom left-hand part of the watch face if it had been turned anti-clockwise. (It has made a three-quarter turn anti-clockwise).

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