



Year 3 Maths Tuesday 21st July 2020



Lesson Aims

LO: To be able to identify parallel and perpendicular lines.

SC: I know that parallel lines must be the same distance apart.
I know that perpendicular lines make a right angle (an L shape).



What are parallel lines?

- They are two lines on a surface that never meet. They are the saddest lines in the world ☹️
- They are always the same distance apart.





Main teaching

- Make a pair of parallel lines with your arms.



Main teaching

- Did you do it in a different way?
- REMEMBER: your arms must be straight and the same distance apart.





Parallel lines are all around us!

They are ALWAYS the
same distance apart.



Main teaching

- Watch this clip and have a go at the question underneath.
- <https://www.bbc.co.uk/bitesize/topics/zb6tyrd/articles/zp327hv>.



Man teaching

- This is a horizontal line.
- Think of the sun on the 'horizon'.



- This is a VERTICAL line.
It goes straight up!





Main teaching

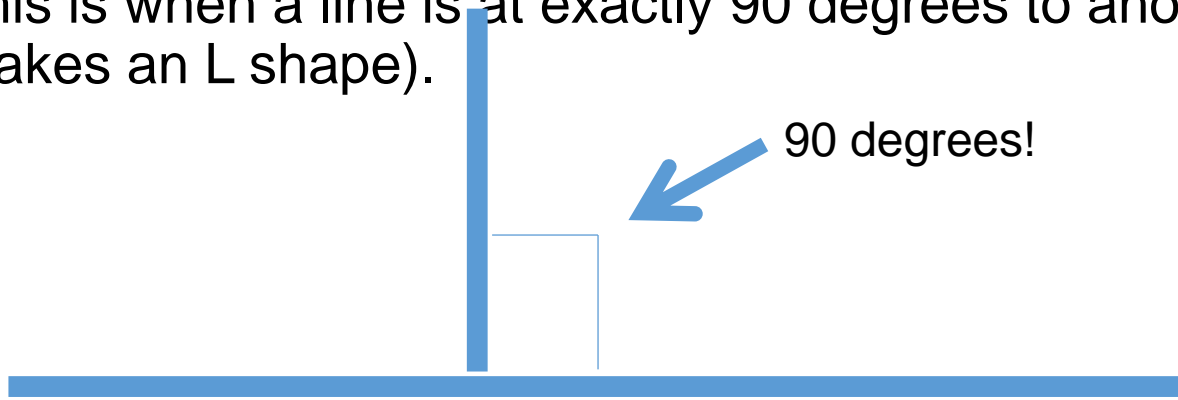
- Watch this clip and have a go at the question underneath.
- <https://www.bbc.co.uk/bitesize/topics/zb6tyrd/articles/zp327hv>.



Main teaching

What is a Perpendicular Line?

- This is when a line is at exactly 90 degrees to another line. (It makes an L shape).





Main teaching

- Watch this clip and have a go at the question underneath.
- <https://www.bbc.co.uk/bitesize/topics/zb6tyrd/articles/zp327hv>.



Try this!

- Look around your house.
- What things can you see with parallel or perpendicular lines?
- Write a list. Can you find **10 DIFFERENT things?**

Parallel
lines



Parallel
lines



Perpendicular
lines



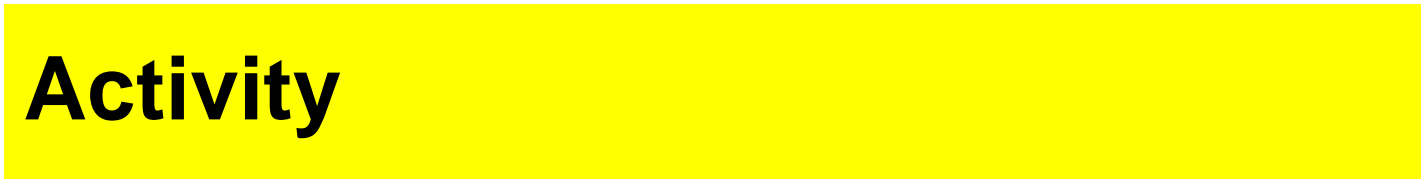
Main teaching

- Click on the link

<https://www.mathsisfun.com/geometry/parallel-lines.html>

- Then, scroll down to play the game. The lines turn yellow when you are correct.

The screenshot shows a web browser window with the URL [mathsisfun.com/geometry/parallel-lines.html](https://www.mathsisfun.com/geometry/parallel-lines.html). The page has a light blue sidebar with a 'Geometry Index' link. The main content area features two examples of parallel lines, labeled 'Example 1' and 'Example 2'. Below these, a text box states: 'Parallel lines also point in the same direction.' A yellow dashed box highlights the text: 'Parallel lines have so much in common. It's a shame they will never meet!'. Below this, a 'Try it yourself:' section contains a game interface. The game shows two lines on a grid, one yellow and one blue. The text 'Yes, they are parallel!' is displayed in yellow, followed by 'Try more, or press Next'. A 'Next' button is visible in the bottom right corner of the game area. The footer of the page reads '© 2015 MathsisFun.com v 0.02'.



Activity

- Draw a picture using only parallel or perpendicular lines.

