

Session 38: Parallel lines

| Session Title | Parallel Palooza |
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| Objective | By the end of the lesson, students will be able to: <ol style="list-style-type: none">1. Define parallel lines2. Identify and draw parallel lines3. Distinguish between parallel and non-parallel lines in everyday objects |
| Concept | Parallel lines -Geometry |
| Materials Required | <ol style="list-style-type: none">1. Whiteboard and markers2. Ruler and pencil for each student3. Chart paper with visuals [Real-life objects (books, railway track images, notebook lines)]4. Worksheets for practice |
| Methodology | Activity oriented |
| Session Duration | 90 Minutes |

Intro Activity (20 minutes):

"Parallel or Not?"

How to Play:

Step 1: Human Lines

Divide students into groups of 4-5.

Ask each group to form two straight lines of students standing side by side, facing the same direction.

Say: "Pretend you are lines on the ground. Are you standing the same distance apart all the way? If yes, you're parallel lines!"

Step 2: Line Detective

Now change it up! Ask one line to slant slightly or move closer at one end.

Ask the class: "Are they still parallel?"

Encourage students to explain why or why not.

Step 3: Rapid Fire Round

Show quick drawings or hold up objects (e.g., a notebook, scissors, a triangle).

Students shout "Parallel!" or "Not Parallel!"

Main Activity (60 minutes):

Explanation (15 minutes):

Definition and Properties:

1. Parallel lines are lines in a plane that never meet, no matter how far they are extended.
2. They are always the same distance apart.
3. Use a whiteboard to draw examples and non-examples.

Types of Lines (10 minutes)

Teach students the difference

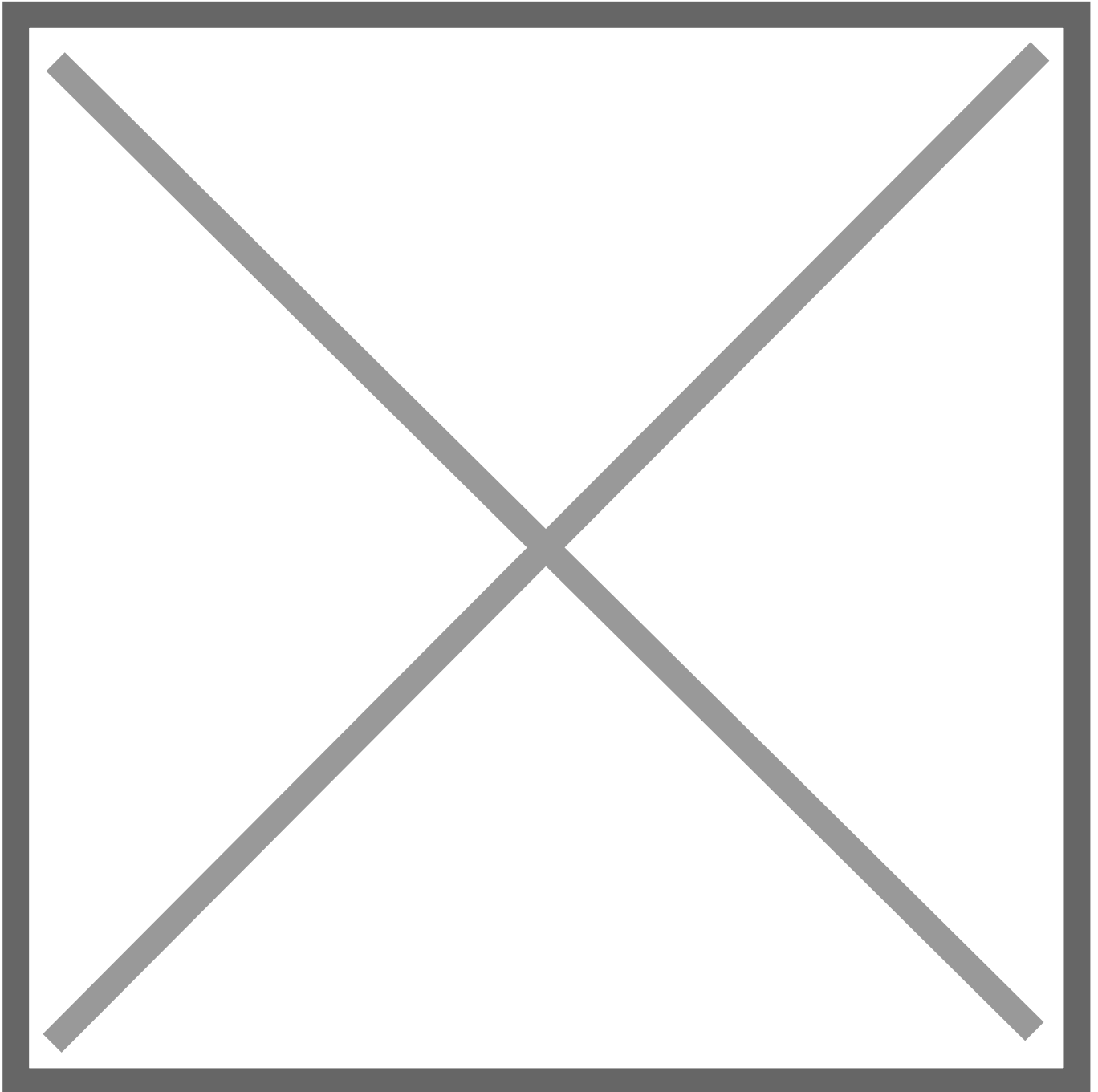
1. Parallel lines : never meet.
2. Perpendicular line: will cross to make right angle
3. Intersecting lines: cross at one point, but do not make right angle

Shapes with Parallel Lines (10 minutes):

Basic intro to 2D shapes that have parallel lines

- Rectangle (2 pairs)
- Square (2 pairs)
- Parallelogram (2 pairs)
- Trapezium (1 pair)

WORKSHEET (10 minutes):



ANGLES (15 minutes) (Draw the picture given below on a chart)



Review Questions (5 minutes):

1. What are parallel lines?
2. Which of the following are examples of parallel lines?
 - a) Railway tracks
 - b) The sides of a triangle
 - c) Clock hands at 3 o'clock
3. Lines that never meet, no matter how far they are extended, are called ____ lines.

Follow up Tasks (5 minutes):

1. What is the symbol used to show that two lines are parallel?
(Hint: It's like two short straight lines)
2. Can parallel lines exist in three-dimensional space?
3. How can you tell if two lines are parallel using a ruler or set square?

Expected Learning Outcome:

Knowledge building:

- Conceptual understanding

Skill Building:

- Comparing line types
- Problem solving

Resources:

Parallel lines:

https://drive.google.com/file/d/1ImPVWns51f_Tt7qB-jpZo_DT2vpSGrFZ/view?usp=drivesdk

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