



MATH&MOVE

PRACTICE SHEET

Types of lines



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TOPIC:

Geometry
(recognition of line types)

DURATION: 20- 30 mins

LEVEL: 1 (ages 6-7)

PARTICIPANTS: 1 class (20-22 pupils), pupils work in pairs (2 x 10) or in groups of 4 (4 x 5)

Note: The time spent on the activity might be longer depending on the number of pupils (more pupils – more time needed) or the extent of practice and comprehension pupils need

Activity

Required material for this activity

- 1** Sheets of white paper (A4) – one per pupil to draw lines upon teacher's request
- 2** Markers - a set of different coloured markers per pair or group to draw the lines
 - For drawing the lines on the floor, the teacher can choose a material of their preference
- 3** Sets square - at least a set per pair or group for drawing lines
- 4** A roll of paper tape
- 5** 1 or 2 piece(s) of chalk
- 6** Real-life object images

Note: Images of everyday items, e.g., houses, block of flats, a ladder, a lake etc., can be displayed in class. The images can be either real (taken by the teacher) or selected online and presented in a PowerPoint or shown in class after printing them. Flashcards of similar items could also be an alternative. Classroom items (e.g., a door, windows, a globe, a map, a board, the computer screen etc.) would work, too. Their number can depend on the number of pairs/groups formed or the type of lines taught.

INSTRUCTION AND DESCRIPTION OF THE ACTIVITY

Instruction

Practice different types of lines with the help of real-life items. Work in pairs or groups. Look at photos of various objects (i.e., a ladder, a building, a lake, a car etc.) and identify the types of lines that make up the object. Use markers and a set square to draw on white paper the lines you have identified. With your partner(s) walk over lines made of paper tape or chalk on the floor, depending on your teacher's instructions, i.e., "Walk over a straight line."

Activity



- Observe objects in your classroom or in pictures shown by the teacher and identify the types of lines used for their construction.
- Try to spot similarities and differences between the shapes and lines. e.g., a door, a window or a house are made of straight lines while a globe or a car wheel are made of curved lines.



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- Talk about the similarities and differences with your partner(s). Draw the lines you've identified on the white sheet of paper using a set square.
- Find the correct definition for each line type you've observed (straight, zigzag, curved), either in pairs or groups, and write it next to each line. Ask your teacher for confirmation or help.

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- On the floor there are different types of lines made of paper tape or drawn in chalk by your teacher. Together with your partner(s) stand up as your task is to now walk to the correct line type while listening carefully to your teacher's instructions. (e.g., "Find a straight line and walk over it."). Remember that your partner(s) must always follow you.

**FINAL STEP**

Before you are back to your seat, shout out loud the name of the line(s) you walked over. With your partner(s) use your body (arms, legs, torso, head) to form the line(s).