

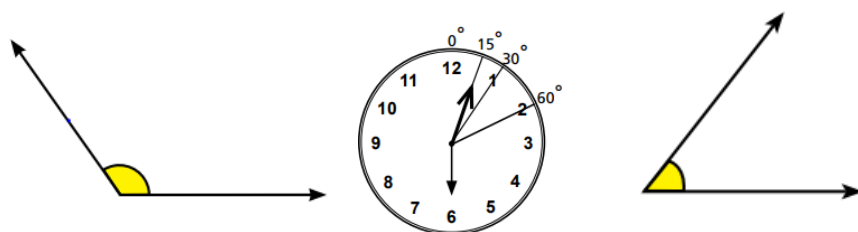
Angles and Triangles

Learning Objective:

- Classify triangles as acute, right or obtuse.
- Identify and describe triangles based on their angles. (Acute-angled triangle, Obtuse-angled triangle and right-angled triangles).
- Use protractor and ruler to construct a triangle when
 - two angles and their included side are given.
 - two sides and included angle are given.

Let's Talk Math: Ask students to bring pictures of different items or objects (easily available at home) on which they can identify and make angles.

Make Sure You Have: A4 Sheets



Activity: Angle and Triangle Challenge

Duration: 1 Lesson

Whole Class Activity

Let's Try It:

- Pupils bring pictures of household items (e.g. clock, fork, table) with identifiable angles.
- They mark and identify the type of angles (right, acute, obtuse) in the pictures.
- Pupils present and share their findings with the class.
- Display their work in the classroom.

Triangle Challenge (In-Class Activity):

- Explain the properties of different triangles before the activity.
- Pupils work in pairs, each drawing triangles of various sizes and angles on an A4 sheet.
- Partners swap sheets and classify the triangles by sides (scalene, isosceles, equilateral) and angles (right, acute, obtuse).
- Pupils name and justify the classification of each triangle.

Assessment: Distribute a half sheet of A4 paper to each pupil. Ask them to write their name in capital letters using straight lines. Ask them to mark angles (as many as possible) on each alphabet of their name. Then name each angle according to its size.

Quadrilaterals and Symmetry

Learning Objective:

- Recognise the kinds of quadrilateral (square, rectangle, parallelogram, rhombus, trapezium, and kite).
- Identify and describe properties of quadrilaterals including square, rectangle, parallelogram, rhombus, trapezium, and kite, and classify those using parallel sides, equal sides and equal angles.
- Recognise different types of symmetry (reflective and rotational) in 2D figures.
- Find point of rotation and order of rotational symmetry of given 2D figures.

Let's Talk Math:

- Ask pupils if they see any similarities, or differences.
- Try to prompt them to be aware of the lines.
- Which ones are curved, and which ones are straight, even if the circle is the only shape on the board that does have a curved line.

Make Sure You Have:

- A4 sheet
- Chart Papers

**Activity:** Shape Sleuths**Duration:** 1 Lesson**Group Activity****Let's Try It:**

- Quadrilateral Classification (In-Class Activity):
Pupils work in pairs and draw various quadrilaterals on A4 sheets.
Partners swap sheets and classify the quadrilaterals based on their properties (sides, angles, symmetry).
Pupils name each quadrilateral and provide reasons for the classification.
- Rotational Symmetry Exploration (Hands-On Activity):
Pupils work in pairs and receive 3-4 cut-outs, tracing paper, and an activity sheet.
They trace the shapes, place them on the cut-outs, and rotate them to find the order of rotational symmetry.
Encourage pupils to discuss and share their findings with the class.

Assessment: Ask pupils to write the properties of the shapes on the cut-outs with respect to the sides and angles and hand it over to the teacher.