**MATHEMATICS PROJECT 2nd TERMINAL 2020 - 21**

**CLASS: 10B**

**TOPIC: ANGLE AT THE CENTRE OF A CIRCLE IS TWICE THE ANGLE SUBTENDED ON THE REMAINING PART OF THE CIRCLE**

**OBJECTIVE:** To verify that the angle subtended by an arc at the centre of a circle is twice the angle subtended by the same arc at any other point on the remaining part of the circle, using methods of paper cutting, pasting and folding.

**MATERIALS REQUIRED:**

1. Geometry box
2. Practical workbook
3. Coloured chart papers – yellow, blue and red
4. Scissors
5. Scale
6. Sketch pen
7. Adhesives or glue sticks
8. Tracing papers – 2

**PROCEDURE:**

1. Draw a circle of 5 cm radius on a blue coloured chart paper. Use black sketch pen for drawing.
2. Cut out the circle.
3. Take a yellow chart paper. Cut it in the size of an A4 sheet and paste the circle on it.

Shape, circle

Description automatically generated

1. Take two points A and B on the circle to obtain the arc AB.

Shape, circle

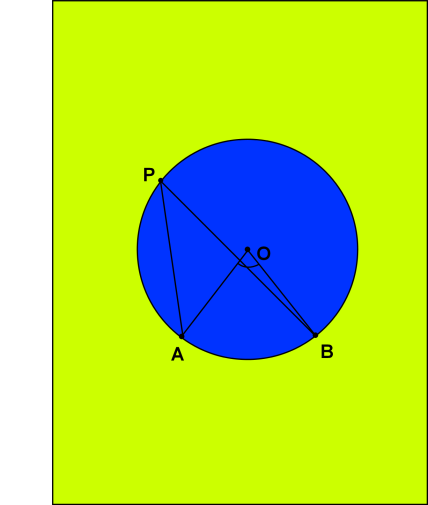
Description automatically generated

1. Form a crease joining OA (by folding) and draw OA.
2. Form a crease joining OB (by folding) and draw OB.

A picture containing pie chart

Description automatically generated

1. Arc AB subtends at the centre O of the circle.
2. Take a point P on the remaining part of the circle
3. Form a crease joining AP (by folding) and draw AP.
4. Form a crease joining BP (by folding) and draw BP.
5. Arc AB subtends at the point P on the remaining part of the circle.



1. Place tracing paper on the circle and draw a replica of the . Prepare two such replicas of with green or red chart papers.

Chart, pie chart

Description automatically generated

1. Place the replicas adjacent to each other on

Chart

Description automatically generated

**RESULT:**

It is noted that the two replicas placed adjacently completely cover

**LAST DATE OF SUBMISSION OF PROJECT: 17th December 2020**