SSLC ACTIVITY 2016-17

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SCHOOL NAME:____

FA – ___

ACTIVITY – ___

SUBJECT: MATHEMATICS

Name of lesson: **Circles** **Nature of Activity**: **Individual**

CONCEPT: **Construction of Tangents**

Student Name:

Role Number :

Class :

Date :

Time :

Check List	**Rubrics**	
1) Follow the correct steps and Mark the points. **2) Use the correct geometric Instruments.** **3) Skills of measuring the correct measurement.** **4) Give the related answers for given questions.** **5) Identify the Tangents.**	Very Good Good Average Below Average	3 2 1 0

Aim of the Activity: Practice to construct the Circles of different radii. Realise the Concept of Tangents. Improve the skills of construct the Tangents.

Required Materials: Pencils, Compass, Scale, pen

Marks Obtained: Subject Teacher Sign

1. Draw a circle of radius 3.5 cm and Construct a chord of length 6 cm in it. Measure the distance between the centre and the chord.

2. Construct two chords of length 6cm and 8cm on the same side of the centre of a circle of radius 4.5cm. Measure the distance between the centre and the chord.

3. Draw a circle of radius 4cm and Construct a tangent at any point on the circle.

4. Draw a circle of diameter 7cm and Construct a tangent at any point on the circle.

5. Draw a circle of radius 3cm and Construct a pair of tangent such that the angle between them is 40^0.

6. Draw a circle of radius 2cm and Construct a pair of tangent at the non – centre end points of two radii such that the angle between the radii is 100^0.

7. Draw a chord of length 4cm in a circle of radius 2.5cm. Construct tangent at the ends of the Chord.

8. Draw a circle of radius 2.5cm.Construct two tangents from a point 4cm away from the centre. Measure and verify the length of the tangents.

9. Construct a pair of tangents to a circle of radius 3.5cm from a point 3.5cm away from circle.

10. Draw DCT to two circles of radii 3cm, whose centres are 8cm apart.

11. Draw   DCT to two circles of radii 4cm and 2.5cm touching internally.

12. Draw TCT to two circles of radii 5cm and 2cm touching externally.

13. Construct a direct common tangent to two circles of radii 5 cm and 2 cm whose centres are 10 cm apart. Measure and verify the length of the direct common tangent.

14. Construct a transverse common tangent to two circles of radii 5 cm and 2 cm whose centres are 10 cm apart. Measure and verify the length of the transverse common tangent.