

# 4. GEOMETRY

## Learning Outcomes:

- ✚ To recall congruent triangles and understand the definition of similar triangles.
- ✚ To understand the properties and construction of similar triangles and apply them to solve problems.
- ✚ To prove basic proportionality theorem, angle bisector theorem and study their applications and study the construction of triangles under given conditions.
- ✚ To prove Pythagoras theorem and study its applications.
- ✚ To understand the concept of tangent to a circle and study construction of tangent to circle.
- ✚ To understand and apply concurrency theorems.

## Applications of Geometry:

Geometry plays vital role in the field of Science, Engineering and Architecture. We see many Geometrical patterns in nature.