CHAPTER-11

Constructions

Learning Objective –

- To acquire the knowledge of basic requisites to construct a triangle
- To develop the skill of constructing a triangle with given conditions

Task–1	Oral Assessment
Topic	Constructions
Nature of Task	Content
Content Coverage	Basic Constructions
Learning Objective	• To acquire the knowledge of basic requisites to construct a triangle
Execution of task	Teacher may ask questions based on Learning Objectives **Note :** Must provide an opportunity to every student to respond and to improve their response.
Duration	2 Periods
Criteria for assessment	Students can be evaluated on the basis of their readiness to respond, correct response, attitude to improve their response etc.

Suggested questions for oral assessment

1. Is it possible to construct a triangle with sides 3 cm, 4 cm and 8 cm ?

2. What are the instruments to be used in performing constructions ?

3. When do you say that a line is the perpendiculat bisector of another line ?

4. What is perimeter of a figure ? What is the perimeter of a given ΔABC ?

5. What is the sum of the angles of a Δ ?

6. The exterior angle of a Δ is equal to sum of the _____.

Task–2	Home Assignment
Topic	Construction
Nature of Task	Post Content
Content Coverage	Basic Constructions
Learning Objective	• To develop the skill of constructing a triangle with given conditions.
Execution of Task	Teacher can give a home assignment containing questions on construction covering all types of conditions to draw a triangle.
Duration	Two days to complete the home assignement.
Criteria for Assessment	Students can be evaluated on neatness, accuracy in work and for timely submission of work.

Suggestive Home Assignments

1. Construct the following angles with the help of ruler and compass, if possible –

   $35^\circ,\ 40^\circ,\ 57^\circ,\ 75^\circ,\ \frac{1^\circ}{2},\ 15^\circ,\ 135^\circ$

2. Draw a ΔABC, in which AB = 4 cm, $\angle A = 60^\circ$ and BC – AC =115 cm.
3. Draw a ΔABC in which BC = 5 cm, $\angle B = 60^\circ$ and AC + AB =7.5 cm.
4. Draw an equalateral Δ whose altitude is 6 cm.
5. Draw a triangle ABC whose perimeter is 10.4 cm and the base angles are 45° and 60°.