Education,Sabaragamuw E agamuwa Province/Week	Sabaragamuwa Provincial Department of Pepartment of Education, Sabaragamuwa
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Grade :- 8	ekly School Department of Education, Sabaragamuwa Province/ Weekly School Department of Education, Sabaragamuwa Province/ Weekly School Department of Education Sabaragamuwa Catton, Sabaragamuwa Province/ Weekly School Department of Setting :- Embilipitiya Education Zone of School Department of Education, Sabaragamuwa Province/ Weekly School Department of Education, Sabaragamuwa

(Learning Time :-2 hours) <u>Construction of Triangles</u>

26.1 Constructions.

- Recall what you learned about constructions in Grade 7.
- Construct a triangle which the length of a side 6 cm by following the steps given below.
 - 1. Construct a straight line which has a length greater than 6cm. Mark one edge of the line as A.
 - 2. Set the compass to 6cm and keep the compass point at A and create an arc on the straight line. Name the intersecting point as B.
 - Keep the compass point at A and create an arc above the straight line. Next keep the compass point on B and draw an arc intersecting the first arc (compass length = 6cm).
 - 4. Name the point of intersecting the two arcs as C. Join AC and BC and complete the triangle ABC.
- Recall how to draw a regular hexagon and construct a regular hexagon where the length of a side is 6cm.
- Complete the review exercise by studying the page 116 in text book part 2.

26.2 Identify the requirements for three given lengths to be the lengths of the three sides of a triangle.

- Complete activity 1 by studying the pages 117 & 118 in text book (Part 2).
- The sum of the lengths any two sides of a triangle is always greater than the length of the other side of the triangle.
- From a set of three given lengths, if the sum of any two lengths is less than the other length; a triangle cannot be constructed by using the mentioned three lengths.
- Complete the exercise 26.1.