



Provincial Department Of Education – Sabaragamuwa
WEEKLY SCHOOL

Subject : Mathematics

Grade 7

Week : 09th of 2nd Term

Unit 14 – Rectilinear Plane figures(1)

- **Polygons**

A closed plane figure bounded by three or more straight line segments is called a **polygon**.



Triangle



Quadrilateral



Pentagon



Hexagon

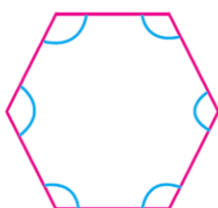
- Complete the columns named “Name of Polygon”, “Number of angles” and “Number of vertices”

Number of sides	Name of polygon	Number of angles	Number of vertices
3			
4			
5			
6			
7			
8			
9			
10			

- **Convex polygons and Concave polygons**

- If no interior angle of a polygon is a reflex angle, then such a polygon is a convex polygon.
- If at least one interior angle of a polygon is a reflex angle, then such a polygon is a concave polygon.

A Convex Polygon



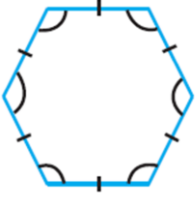
A Concave Polygon



- **Regular Polygons**


A polygon with all sides equal in length and all angles equal in magnitude is called a **regular polygon**.

Regular Hexagon



all six sides equal in length and all six angles equal in magnitude

Rectangle is not a Regular Polygon



all four angles are equal in magnitude, but all four sides are not equal in length

- Complete the columns named “Name of Polygon” and “Name of Regular Polygon”

Number of sides	Name of polygon	Name Of Regular Polygon
3		
4		
5		
6		
7		
8		
9		
10		