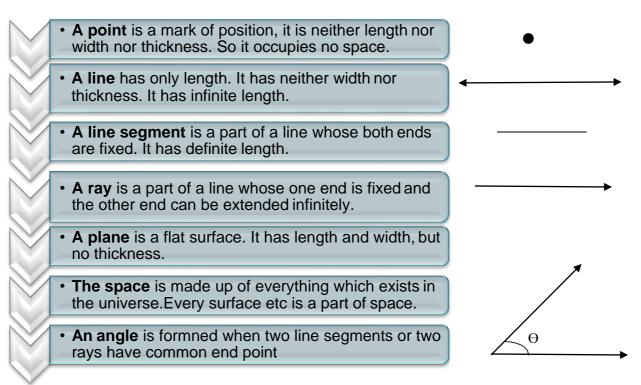
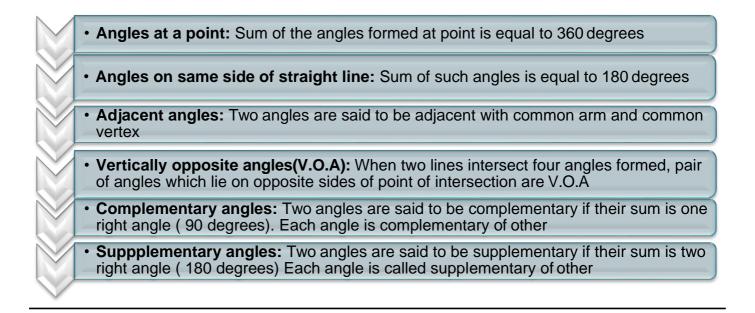
## **GEOMETRY- FUNDAMENTAL CONCEPTS**



## TYPES OF ANGLES

- Acute Angle:  $0^0 < \theta \le 90^0$
- Right Angle:  $\theta = 90^{\circ}$
- Obtuse Angle:  $90^0 < \theta \le 180^0$
- Straight Angle:  $\theta = 180^{\circ}$
- Reflex Angle:  $180^{\circ} < \theta \le 360^{\circ}$



**Parallel lines** are straight lines which are coplanar and don not intersect each other even when produced on both sides.

Transversal is a straight line that cuts two or more co planar lines.

## b a e f h g c d

## **Condition for parallelism**

- Alternate angles are equal or *Interior* :< *e* =< *g*; < *f* =< *h* and *Exterior*: < *b* =< *d*; < *a* =< *c*
- Corresponding angles are equal or < a =< g; < b =< h; < f =< d; < e =< c
- Co interior angles are supplementary  $< e+< f = 180^{\circ}; < h+< g = 180^{\circ};$