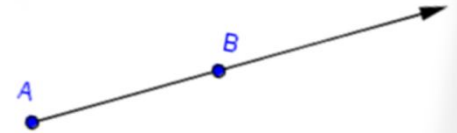


# Geometry Unit 0-2



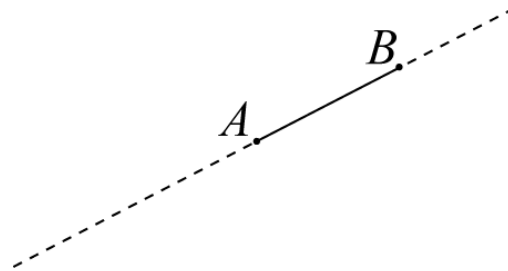
## Segments, Rays, Parallel Lines and Planes

Objective: SWBAT identify segments, rays,  
parallel lines, and planes.

# SEGMENTS AND RAYS

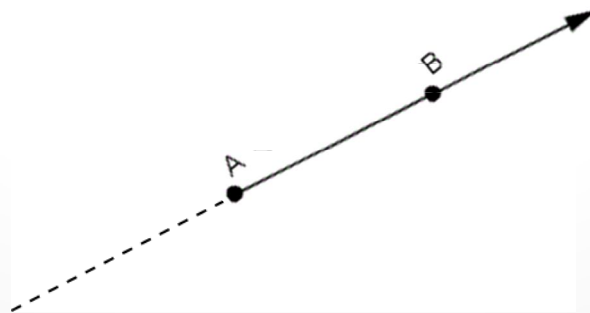
- *Line Segments*

- Part of a line consisting of two endpoints and all points between them. Below is  $\overline{AB}$ .



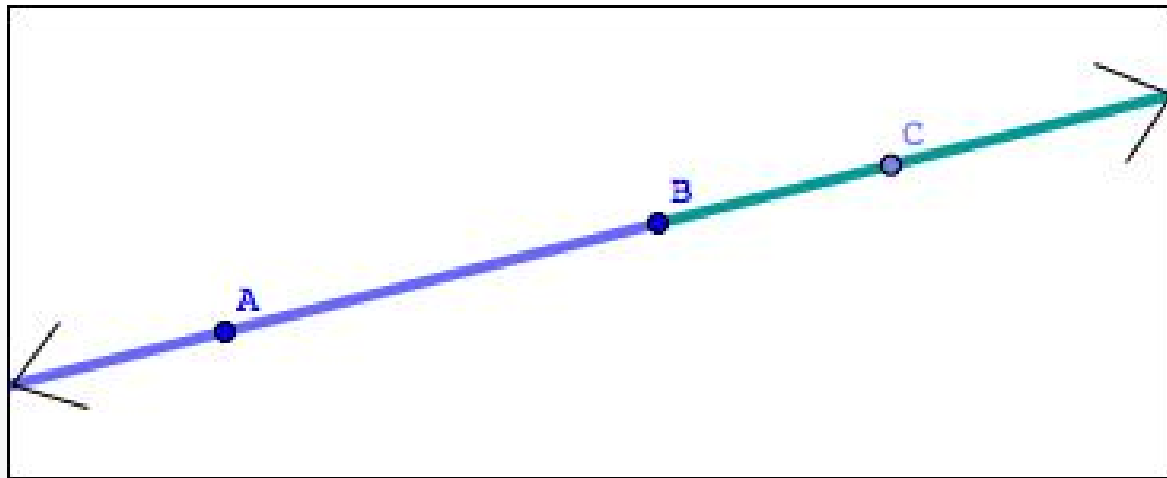
- *Rays*

- The part of a line consisting of one endpoint and all the points on the line on one side of the endpoint. Below is  $\overrightarrow{AB}$ .



# OPPOSITE RAYS

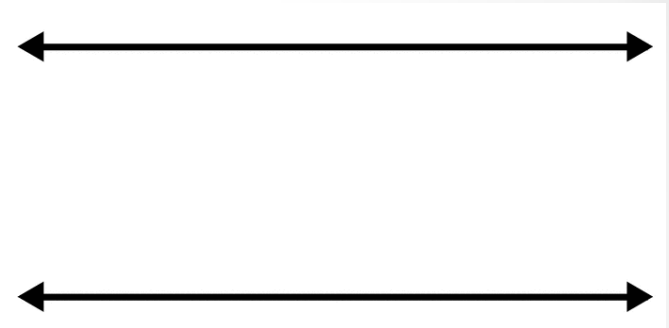
- *Opposite Rays*
  - Two collinear *rays* with the same endpoint.
  - Always form a line.
  - $\overrightarrow{BA}$  and  $\overrightarrow{BC}$  are *opposite rays* in the figure below.
  - The four *rays* formed in the picture below include:
    - $\overrightarrow{AB}$  or  $\overrightarrow{AC}$ ,  $\overrightarrow{BC}$ ,  $\overrightarrow{BA}$ , and  $\overrightarrow{CB}$  or  $\overrightarrow{CA}$



# PARALLEL AND SKEW LINES

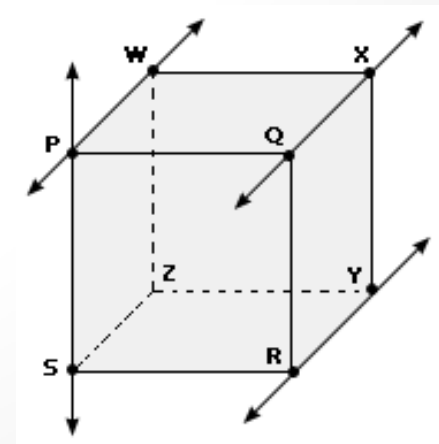
- *Parallel lines*

- Coplanar lines that do not intersect.
- Have the same slope.



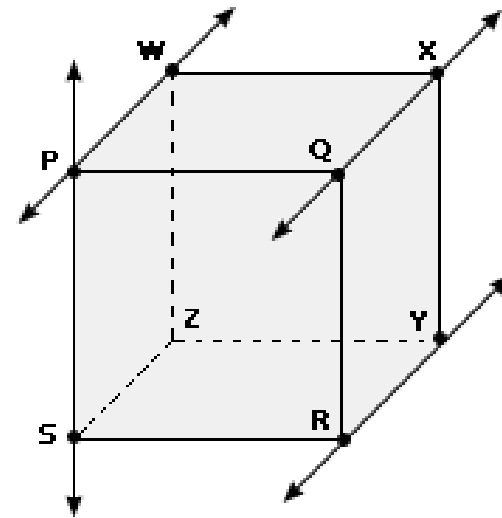
- *Skew Lines*

- Noncoplanar lines that are *not parallel* and *do not intersect*.
- $\overleftrightarrow{QX}$  and  $\overleftrightarrow{PS}$  are *skew*.



# PARALLEL AND SKEW SEGMENTS AND RAYS

- *Segments* or *rays* are *parallel* if they lie in parallel lines.
- *Segments* or *rays* are *skew* if they lie in skew lines.
- $\overline{QX}$  and  $\overline{PS}$  are *skew* because  $\overleftrightarrow{QX}$  and  $\overleftrightarrow{PS}$  are *skew*



# PARALLEL PLANES

- *Parallel planes*
  - Planes that do not intersect.
  - Plane CDEF || Plane BAHG

