	Definition	Illustration	Naming
Point			
Line			
Line Segment			
Ray			
Opposite Rays			
Plane			
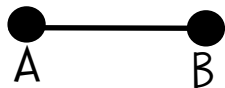
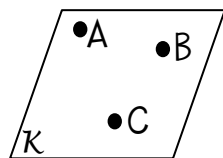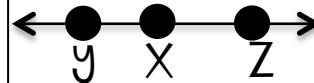|			
An object with no thickness that extends infinitely in two directions.	A ●————————● B	←———●——————●———→ m A B	Rays that share a common endpoint, but continue infinitely in opposite directions.
$\overline{AB}$ or $\overline{BA}$	An exact location in space with an indefinite shape and size.	A flat surface that continues infinitely in all directions.	● X
Point X or X	A ●————————→ B	$\overrightarrow{XZ}$ and $\overrightarrow{XY}$	Plane ABC or Plane K
$\overrightarrow{AB}$	Part of a line consisting of one endpoint and extending infinitely in one direction.	←——●——●——●——→ Y X Z	
●A ●B ●C K	Line m $\overleftrightarrow{AB}$ or $\overleftrightarrow{BA}$	Part of a line consisting of two endpoints and all the points in between.	