1 - 1 Points, Lines, and Planes

point: a location / no shape or size

line: made up of points/no thickness or width

collinear: points on the same line

plane: flat surface made up of points ~ no depth/extends infinitely in all directions coplaner: Points on the same plane

Point

Written Drawn Point P capital letter

Line

Drawn

CB AN

Inneed 2 PTS
or lowercase script
letter

Written

line AB, line BA

AB, BA, line n



Plane

Drawn

K. J.

→ 3 noncollinear pts or capital script letter

Written

Plane XYZ Plane ZXY Plane YZX, etc Plane Y

Facts:

*** There is exactly one line through any two points.

There is exactly one plane through any 3 noncollinear Points.

Ex: Use the figure at the right to name each of the following:

a.) a line containing point A

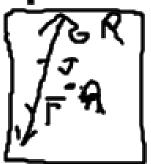
line BC

b.) a plane containing point C

plane BCE

Draw a figure that shows the following:

a.) FG lies in plane R and contains point J



Now add...

b.) point A is coplaner with point F and point J, but not collinear

Homework:

1-1 Practice WS (all)