NEW SECTION IN BINDER! UNIT 5: BASICS OF GEOMETRY AND TRANSFORMATIONS

If you need more room, get a new binder!

OBJECTIVE: UNDERSTAND THE BASICS OF GEOMETRY (16.1 AND 16.2)

WHAT IS THE DIFFERENCE BETWEEN A POINT, A LINE, AND A PLANE?

Points, Lines, Planes

 A <u>point</u> is a specific location. It has no dimension and is represented by a dot.

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• A <u>line</u> is a connected straight path. It has no thickness and it *continues forever* in both directions.

 A <u>plane</u> is a flat surface. It has no thickness and it *extends* forever in all directions.

Naming Points









Planes

https://www.youtube.com/watc h?v=k5etrWdIY6o

Foldable

Landscape



Fold in half











Cutalons Folds



point Coplanar line midpoint Segment bisector plane line segment angle ray angle bisector Postulate Collinear

Point











a flat surface with no thickness that extends forever (two dimensional)

R .Y plane R Plane XYZ plane ZXY

plane YZX

line segment

Undefined Terms

- Point, line, and plane are undefined terms. We call them this because they are the most basic terms in Geometry.
- They cannot be defined using other terms.

Defined Terms

- Now that we know what undefined terms are, what are defined terms?
- What is classified as a defined term?
- Defined terms are terms that are defined by undefined terms.