<name> Class: Honors Geometry Date: <date> Topic: Lesson 1-2 (Points, Lines and Planes)

Building blocks of Euclidean geometry	Points, lines and planes
Euclid	Greek mathematician ~300BC Wrote series of books called "The Elements" Books 1-6 are on plane geometry (Euclidean geometry)
Point	Basic unit of geometry Has no size Has only location Draw as a small dot Named by a capital letter Undefined in Euclidean geometry
Space	The collection of all points
Line	 Straight arrangement of points that extend forever in two directions Has infinite length but no thickness Named by: Any two points on the line (AB) w/a dbl headed arrow over it A lower case letter Undefined in Euclidean geometry
Collinear points	Points on the same line
Example 1	<optional as="" needed="" notes=""></optional>
Plane	 A flat surface that extends forever. Has no thickness. Named by: At least 3 of its noncollinear points. A single capital letter. Undefined in Euclidean geometry
Example 2	<optional as="" needed="" notes=""></optional>

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Coplanar	Objects (lines, points, shapes, etc) that lie in same plane.
Axiom	An accepted statement of fact Also known as a postulate
Postulate 1-1	Thru any 2 points there is exactly 1 line
Postulate 1-2	2 lines intersect at exactly 1 point
Postulate 1-3	2 planes intersect at exactly 1 line
Example 3	<optional as="" needed="" notes=""></optional>
Postulate 1-4	Exactly 1 plane thru any 3 noncollinear points.
Example 4	<optional as="" needed="" notes=""></optional>