| Name | | | |
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| mame_ | | | |

Honors Geometry

Ch 1 Notes Packet

Section 1-1:

After this section you will have completed the following Common Core State Standard(s):

 G.CO.1: Know precise definitions of angle, circle, perpendicular and parallel lines and line segments based on the undefined notions of point, line distance along a line/ around an arc, etc.

And will be improving your skills in the following Mathematical Practice(s):

- 4. Model with mathematics
- 6. Attend to precision

Specifically, you should be able to:

- Identify and model points, lines and planes
- Identify intersecting lines and planes

| | etry are points, lines, and planes. The cause although they can be described | |
|------------------------------------|--|---------------|
| hard to give them a concrete defin | | <i>x</i> 10 0 |
| <u>Point</u> : | | |
| <u>Line</u> : | | |
| <u>Plane</u> : | | |
| <u>Collinear</u> : | | |
| <u>Coplanar</u> : | | |
| Intersection: | | |
| Using the undefined terms we can | define some other important figures | . . |
| Space: | | |

| Examples: |
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| Section 1-2: |
| After this section you will have completed the following Common Core State Standard(s): G.CO.1: Know precise definitions of angle, circle, perpendicular and parallel lines and line segments based on the undefined notions of point, line distance along a line/ around an arc, |
| etc. And will be improving your skills in the following Mathematical Practice(s): |
| 6. Attend to precision Specifically, you should be able to: |
| Measure segments |
| Calculate with measures |
| Again, using the undefined terms we can define some other important figures |
| Line Segment(aka): |
| |
| Betweenness of Points: |
| betweenness of Fornts. |
| |
| |
| |
| |
| |
| Shapes like segments are, while number like measures of segments are |
| Jeginents are |
| Examples: |
| |

| c. | ~~+ | | | 1 | -3: | |
|----|-----|----|---|---|-----|--|
| 56 | •ct | 10 | n | | -3: | |

After this section you will have completed the following Common Core State Standard(s):

 G.CO.1: Know precise definitions of angle, circle, perpendicular and parallel lines and line segments based on the undefined notions of point, line distance along a line/ around an arc, etc.

And will be improving your skills in the following Mathematical Practice(s):

- 2. Reason abstractly and quantitatively
- 7. Look for and make use of structure

Specifically, you should be able to:

- Find the distance between 2 points
- Properly use the midpoint formula

| The distance between two points (x_1, y_1) and (x_2, y_2) is given by: |
|--|
| |
| The midpoint between two points (x_1, y_1) and (x_2, y_2) is given by: |
| |
| |
| Segment bisector: |
| |
| Examples: |

| Section | <u>1-4:</u> |
|---------|-------------|
| | |

After this section you will have completed the following Common Core State Standard(s):

 G.CO.1: Know precise definitions of angle, circle, perpendicular and parallel lines and line segments based on the undefined notions of point, line distance along a line/ around an arc, etc.

And will be improving your skills in the following Mathematical Practice(s):

- 5. Use appropriate tools strategically
- 6. Attend to precision

Specifically, you should be able to:

- Measure and classify angles
- Identify and use congruent angles and the bisector of an angle

| Ray: | |
|--------|--|
| | |
| | |
| Angle: | |
| | |
| | |
| | |

| Angle bisector: | |
|--|-----|
| | |
| Section 1-5: | |
| After this section you will have completed the following Common Core State Standard(s): • Prepare for G.SRT.7: Explain and use the relationship between the sign and cosine of complementary angles | |
| And will be improving your skills in the following Mathematical Practice(s): | |
| Reason abstractly and quantitatively Construct reliable arguments and critique the reasoning of others | |
| Specifically, you should be able to: | |
| Identify and use the special pairs of angles | |
| Identify perpendicular lines Diagram | ns: |
| Adjacent angles: | |
| <u>Linear Pair:</u> | |
| | |
| Vertical Angles: | |
| <u>Complementary:</u> | |
| Supplementary: | |

| <u>Perpendicular:</u> | |
|-----------------------|--------------|
| Examples: | |
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| | |
| • | vely |
| Polygon: | |
| <u>Convex:</u> | Concave: |
| <u>Equilateral:</u> | Equiangular: |
| Regular: | |

Triangle: Square:

Rectangle: Circle:

Examples: