

# Geometry

## Quarter I Unit 1: PATTERNS AND INDUCTIVE REASONING



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**"I have never let my schooling interfere with my education" –Mark Twain**

### overview

In this unit you will study patterns and inductive reasoning. Basic geometry terms will be introduced. You will look for patterns and make predictions about geometric problem situations. You will also learn that generalizations based on specific cases are called conjectures, and that they are an outcome of inductive reasoning.

## guiding question I: How can we make predictions or generalizations using math?

### lessons

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|------------------------------|--|
| Thursday 8/30<br>Friday 8/31 | <p>1.1 Patterns and Inductive Reasoning</p> <p><b>Vocabulary:</b> Conjecture, Inductive Reasoning, Counter-example<br/> <b>Practice Set:</b> Page 6: #'s 6-21 Multiples of 3; 29-33</p>  |
| Monday 9/3<br>Tuesday 9/4    | <p>Monday- No School</p> <p>Tuesday- Review &amp; Group Activity</p>   |
| Thursday 9/6<br>Friday 9/7   | <p>1.2: Points, Lines, and Planes</p> <p><b>Vocabulary:</b> Point, Line, Plane, Collinear Points, Coplanar Points, Segment, Ray<br/> <b>Practice Set:</b> p.13 #'s 9-42 Multiples of 3; 61-67</p> <p>1.3: Segments and Their Measures</p> <p><b>Vocabulary:</b> Postulate, Ruler Postulate, Segment Addition Postulate, Congruent, Distance Formula<br/> <b>Practice Set:</b> p.21 #'s 14-42 even; 44-45</p>   |
| Monday 9/10<br>Tuesday 9/11  | <p>1.4: Angles and Their Measures</p> <p><b>Vocabulary:</b> Angle, Acute Angle, Right Angle, Obtuse Angle, Straight Angle, Protractor Postulate, Angle Addition Postulate<br/> <b>Practice Set:</b> p. 29 #'s 17-48 odd</p> <p>1.5: Segment and Angle Bisectors (Start)</p> <p><b>Vocabulary:</b> Segment Bisector, Midpoint Formula<br/> <b>Practice Set:</b> p.39 #'s 18-30 Multiples of 3<br/> <b>Construction:</b> p.34: "Segment Bisector and Midpoint"</p> |
| Thursday 9/13<br>Friday 9/14 | <p>1.5: Segment and Angle Bisectors (Finish)</p> <p><b>Vocabulary:</b> Angle Bisector<br/> <b>Practice Set:</b> p. 39: 33-48 Multiples of 3<br/> <b>Construction:</b> p.36: "Angle Bisector"</p> <p>1.6: Angle Pair Relationships</p> <p><b>Vocabulary:</b> Vertical Angles, Complementary Angles, Supplementary Angles</p>  |

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|------------------------------|--|
|                              | <b>Practice Set:</b> p.47 #'s 9-39 odds<br><b>Construction:</b> p.43: "Angles and Intersecting Lines"    |
| Monday 9/17<br>Tuesday 9/18  | 1.7: Introduction to Perimeter, Circumference, Area<br><b>Practice Set:</b> p.55 #'s 9-51 Multiples of 3 |
| Thursday 9/20<br>Friday 9/21 | Review<br>Vocabulary Due<br>Assessment: Basics of Geometry   |

Assignment Guidelines:***Individual Work***

**Vocabulary:** (Create a Graphic Organizer, Mind Map, or Flash Cards for the following vocabulary words below.)

DUE on day of Assessment (9/20 or 9/21)

**Practice Sets:** You will find the problems in the textbooks located in the classroom **OR** in the pdf form on Google Classroom. You must complete the whole set for full credit.

DUE every Thursday/Friday

**Warm Ups:** available daily on Google Classroom in the first 5 minutes of class.

***Group***

**Construction:** Complete the activities and write out the steps for future reference.

DUE at the end of class