

## LESSON 2.1 • Geometric Reasoning

### **Reading Assignment**

***Attach to Chapter 2 Notes.***

Access the reading on Ms. Schultz's website: [www.schultzjen.weebly.com](http://www.schultzjen.weebly.com)

Under Schultz's Schedule, click on Honors Geometry. Scroll down to Chapter 2: Reasoning & Proof, Lesson 2.1 ~ Geometric Reasoning. Click on "Read: Geometric Reasoning." Answer the questions that follow.

1. What is inductive reasoning?
2. How is inductive reasoning used in mathematics?
3. What is a conjecture?
4. What are the three steps you should follow when reasoning in Geometry?
5. What is the biggest difference between the first two steps and step three?
6. What is a counterexample?
7. When should you use deductive reasoning?
8. What is a logical argument?

9. What is a conditional statement?
  
10. What is the hypothesis and conclusion of a conditional statement?
  
11. How is the converse of a conditional statement formed?
  
12. When a statement and its converse are both true, we can combine them into what kind of statement?
  
13. How is the inverse of a statement formed?
  
14. How is the contrapositive of a statement formed?
  
15. What does the law of detachment state?
  
16. What does the law of syllogism say?