Geometry

Chapter 2.1 – Inductive Reasoning – I Can Sheet

Name: _____

Standard: LP.1

l can...

- State the definition of a conjecture
- Write geometric/algebraic conjectures using reasoning & patterns
- Use evidence and counterexamples to proof/disprove conjectures

 Video notes
 worksheet 1
 worksheet 2
 Pre-MC
ws #3

resource video

_____mastery check

PRE-MC:

1. Write a conjecture that describes the pattern in the sequence, then use your conjecture to find the next item in the sequence.

10, 4, -2, -8, ...

- 2. Write a conjecture about the sum of two even numbers.
- 3. Make a conjecture about the geometric relationship: Point S is between R and T.
- 4. What is a counterexample?

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5. Find a counterexample to show that the conjecture is false:

If $< ABC \cong < DBE$, then < ABC and < DBE are vertical angles.

6. Determine whether the statement is true or false. If false, give a counterexample.

If S, T, and U are collinear and ST=TU, then T is the midpoint of \overline{SU} .