Section 2.1 Date_____

Use Inductive Reasoning

Vocabulary	Definition	Example
CONJECTURE	A conjecture is an unproven statement that is based on observations *Not all conjectures will be true	- It's cloudy outside therefore it's going to rain. - All supplementary angles are linear pairs.
INDUCTIVE REASONING	Inductive reasoning is the process of finding a pattern for specific cases and then writing a conjecture for the general case	○△○△○ ... △ the pattern is circle then triangle x | 0 | 1 | 2 | 3 | ... | nth y | 0 | 1 | 4 | 9 | | n^2 $y = x^2$ ← rule for the general case
COUNTEREXAMPLE	A counterexample is a specific case for which the conjecture is false.	All angles that have a supplement also have a complement. $m\angle A = 60°$ supplement = 120°, complement = 30° counterexample: $m\angle A = 93°$ supplement = 87°, complement = NO