## Geometry: Unit 3 Reasoning Conditional Statements 11/9/12 **SLO: I can write conditional statements in a flowchart format and include reasons for each hypothesis and conclusion.**

## LESSON: (Record all work in your notebook.)

Notes (Copy into your notebook and dra	aw a box around them)
Vocabulary: Flowchart: representation of a lo	ogical argument with statements and reasons. Example: If $\angle a \ and \angle b \ are \ complementary then a + b = 90°.$
reason	∠a and ∠b are complementary given
reason	a + b = 90° Def. of complementary
Use the reasons below to complete the flow	vcharts for the conditional statements on the back of this sheet.

Given Definition of supplementary Definition of complementary Definition of vertical angles Definition of midpoint Definition of bisect Definition of congruent Definition of right angle Definition of straight angle Pythagorean Theorem Midpoint formula

Alternate Interior Angles Theorem (& converse) Alternate Exterior Angles Theorem (&converse) Corresponding Angles Postulate (& converse) Consecutive Interior Angles Theorem (& converse)

HOMEWORK: Problems under "Friday 11/9" on the homework sheet. BACK OF DO NOW SHEET: Today my level of understanding is O O O because EXIT Write a flowchart for: If  $\angle a \cong \angle b$ , then  $m \angle a = m \angle b$ 

SLO: I can write conditional statements in a flowchart format and include reasons for each hypothesis and conclusion.

