

## **REASONING AND PROOF**

**Inductive Reasoning:** Reasoning based on patterns you observe.

A conjecture is a conclusion you reach using inductive reasoning.

A conditional is an if -then statement.

The hypothesis is the part following if....

The conclusion is the part following then ....

The negation of a statement is the opposite of the statement.

The negation of the statement "The sky is blue " is "The sky is not blue ' .

Try to understand terms:

Converse statement...

Inverse Statement...

Contrapositive statement....

Counter Examples....

Biconditional Statements...