## Conditional, Converse, Inverse, and Contrapositve

Name $\qquad$ Period $\qquad$ Date: $\qquad$


## Converse

If (hypothesis)
If two angles have the sum of $90^{\circ}$
then (conclusion)
then they are complementary

## Contrapositve

If (hypothesis)
If two angles do not have the sum of $90^{\circ}$
then (conclusion)
then they are not complementary

1. Use the double brace map like the one above to write a conditional statement, a converse, an inverse, and a contrapositive for "A guitarist is a musician."

- Write the converse, inverse and contrapositive for each of the following conditional statements
- Determine if each of the three statements is true or false.
- If false, give a counter example.

2. If you do all of your homework, then you get to play video games.

## Converse:

## Inverse:

## Contrapositive:

3. If you live in Cathedral City, then you live in California.
4. If an angle's measure is between $90^{\circ}$ and $180^{\circ}$, then it is an obtuse angle.
5. Create your own conditional statement and its Converse, Inverse, and Contrapositive
