

NAME _____ DATE _____ PER. _____

2.1 CONDITIONAL STATEMENTS

For each conditional statement below, state the hypothesis and the conclusion.

1. Hypothesis: Conclusion:	If a man is 7 feet tall, then he plays basketball.
2. Hypothesis: Conclusion:	If you are flying, then you are in a jet.
3. Hypothesis: Conclusion:	If you are in Alaska, then you are cold.

For each conditional statement below, write its converse, determine whether it is true or false, and provide a counterexample if false.

4. Converse: TRUE or FALSE Counterexample:	If it is a ring, then it is made of gold.
5. Converse: TRUE or FALSE Counterexample:	If it is a bird, then it can fly.
6. Converse: TRUE or FALSE Counterexample:	If your grade is a 96, then you are making an A.
7. Converse: TRUE or FALSE Counterexample:	If you play football, then you wear a uniform.

Write the inverse of each conditional statement below.

8. Inverse:	If it is a battery, then it is rechargeable.
9. Inverse:	If it is a computer, then it has a hard drive.
10. Inverse:	If an animal is black and white, then it is a penguin.

Write the contrapositive of each conditional statement below.

11. Contrapositive:	If a species walks on two feet, then it is human.
12. Contrapositive:	If a gem is a ruby, then it is red.
13. Contrapositive:	If it is a fish, then it lives in water.

Write a conditional statement for the situation described, then write its converse, inverse, and contrapositive.

Sophomores must have at least 5 credits.

14. Conditional:
15. Converse:
16. Inverse:
17. Contrapositive: