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| <b>Strand: Geometric and Spatial Relationships</b>  |   | Missouri CLE   |
| <b>Power Standard: I will use inductive and deductive reasoning to establish the validity of geometric conjectures, proved theorems, and critique arguments made by others.</b> |   |  |
| <b>Kid-Friendly Objective: I will use inductive and deductive reasoning.</b>  |   |  |
| <b>Score 4.0</b>  | <p><b>In addition to Score 3.0, in-depth inferences or applications that go beyond what was taught. For example, the student may:</b></p> <p>*will create and then illustrate a fictional product and its slogan. The student will write the slogan as a conditional statement in “if, then” format. The student will write the converse, inverse, and contrapositive.</p>  |  |
|   | <b>3.5</b>  | In addition to 3.0 performance, in-depth inferences and applications with partial success. |
| <b>Score 3.0</b>  | <p><b>The student will:</b></p> <p>Given a statement, write it in “if, then” format. The student will identify the hypothesis and conclusion, then write the converse, inverse, and contrapositive of the statement and determine whether each statement is true or false. The student will also provide a counterexample for false statements.</p> <p>The student exhibits no major errors or gaps in the learning goal (complex ideas and processes).</p> |  |
|   | <b>2.5</b>  | No major errors or gaps in 2.0 content and partial knowledge in 3.0 content                |
| <b>Score 2.0</b>  | <p>The student will:</p> <p>Be given a statement written in “if, then” format. The student will identify the hypothesis and conclusion, then write the converse, inverse, and contrapositive of the statement and determine whether each statement is true or false.</p> <p>The student exhibits no major errors or gaps in the simpler details and processes.</p>  |  |
|   | <b>1.5</b>  | Partial understanding of the 2.0 content and some of the 3.0 content.                      |
| <b>Score 1.0</b>  | With help, a partial understanding of the 2.0 content and some of the 3.0 content.  |  |
|   | <b>0.5</b>  | With help, a partial understanding of the 2.0 content and none of the 3.0 content.         |
| <b>Score 0.0</b>  | Even with help, no understanding or skill demonstrated.   |  |

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**4.0 Example Assessment Items****Slogan project.**

### 3.0 Example Assessment Items

Write the given conditional statement in if-then form. Underline the hypothesis once and the conclusion twice. Write the converse, inverse, and contrapositive and determine if each statement is true or false.

"A poodle is a dog."

### 2.0 Example Assessment Items

Given the conditional statement below, write the related conditional statement and determine if the related conditional statement is true or false.

"If  $m\angle A = 46^\circ$ , then  $\angle A$  is an acute angle."

- a) The converse:
- b) Is the converse True or False?
- c) The inverse:
- d) Is the inverse True or False?
- e) The contrapositive:
- f) Is the contrapositive True or False?