

Rating Guide
ILS-Fossil Park Cluster

- 1 [1] Allow 1 credit for *C*.
- 2 [1] Allow 1 credit. Acceptable responses include, but are not limited to:
- Many locations contain tropical marine fossils that could only live in warmer water found near the equator.
 - Tectonic processes generated new sea floor because now an ocean is located between the continents of North America and Africa.
- 3 [1] Allow 1 credit for *A*.
- 4 [1] Allow 1 credit if *both* responses are correct. Acceptable responses include, but are not limited to:
- The rocks at Penn Dixie Park show tilting./Rocks at Penn Dixie Park are not horizontal.
 - Sedimentary rock layers at both locations are evidence for deposition of sediments in water.
 - The rocks containing marine fossils at Thacher Park show a high elevation./Thacher Park has marine fossils at an elevation of 1657 feet.
 - Weathering and erosion have altered the shape of the surface bedrock at Penn Dixie Park.
- 5 [1] Allow 1 credit. Acceptable responses include, but are not limited to:
- The surface bedrock of both locations are made of Hamilton shale.
 - Both locations have the Onondaga limestone underneath Hamilton shale at the surface.
 - Both locations show a similar sequence of rock layers.

Item Alignment
ILS – Fossil Park Cluster

Item Number	Performance Expectation
1	MS-ESS1-4
2	MS-ESS2-3
3	MS-ESS1-4
4	MS-ESS2-2
5	MS-ESS1-4

Rating Guide
ILS-Globe Cluster

- 1 [1] Allow 1 credit for *D*.
- 2 [1] Allow 1 credit. Acceptable responses include, but are not limited to:
- because force *X* and force *Y* are equal
 - Forces *X* and *Y* are equal and opposite to keep the globe in a fixed position.
 - When forces *X* and *Y* are balanced, the object will not change its motion.
- 3 [1] Allow 1 credit for *A*.
- 4 [1] Allow 1 credit for *B*.
- 5 [1] Allow 1 credit. Acceptable responses include, but are not limited to:
- Since the globe is at a lower position, the potential energy is less.
 - The potential energy decreases as the globe moves from position 1 to position 2.
 - the potential energy decreases

Item Alignment
ILS – Globe Cluster

Item Number	Performance Expectation
1	MS-PS2-5
2	MS-PS2-2
3	MS-PS2-3
4	MS-PS2-2
5	MS-PS3-2

Rating Guide
ILS-Organisms Cluster

- 1 [1] Allow 1 credit for *D*.
- 2 [1] Allow 1 credit for *two* correct responses. Acceptable responses include, but are not limited to:
- There are 4 limbs in both the chicken and the rabbit, and the fish has no legs.
 - The chicken and rabbit breathe air through lungs on land, while the fish breathes through gills in water.
 - The mid- and late-stage chicken embryo looks similar to the mid- and late-stage rabbit embryo. Neither look like the fish embryo.
- 3 [1] Allow 1 credit for bird as the organism and correct evidence. Acceptable responses include, but are not limited to:
- The way that the bones attach to each other in the bird wing is most similar to the *Velociraptor*.
 - The “finger bones” of the *Velociraptor* are less in number and closer together like the bones in the bird wing.
 - The bone structure in the *Velociraptor* is most similar to the bone structure in the bird wing.
- 4 [1] Allow 1 credit for *A*.
- 5 [1] Allow 1 credit for *B*.

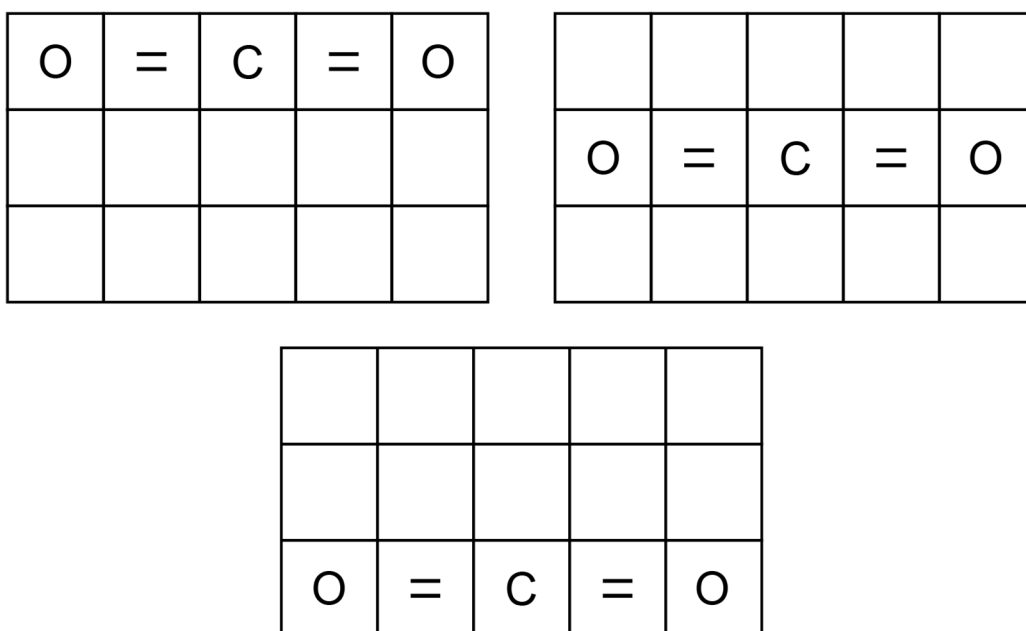
Item Alignment
ILS – Organisms Cluster

Item Number	Performance Expectation
1	MS-LS4-3
2	MS-LS4-3
3	MS-LS4-2
4	MS-LS4-1
5	MS-LS4-1

Rating Guide
ILS–Investigating Chemical Reactions Cluster

- 1 [1] Allow 1 credit for *C*.
- 2 [1] Allow 1 credit for two oxygen atoms connected to one carbon atom with double bonds in a linear structure.

Examples of a 1-credit response:



- 3 [1] Allow 1 credit for:
- A:
- B:
- C:
- 4 [1] Allow 1 credit for *A*.
- 5 [1] Allow 1 credit for *B*.

Item Alignment
ILS – Investigating Chemical Reactions Cluster

Item Number	Performance Expectation
1	MS-PS1-2
2	MS-PS1-1
3	MS-PS1-5
4	MS-PS1-2
5	MS-PS1-6