

Post-Assessment: ESS.3.1 - Solar System (ESS3.1.1, ESS.3.1.2, ESS.3.1.3)

1. (L3) Vocabulary: Match the word with the correct definition. (ESS 3.1.1 and ESS 3.1.3)

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|-----------------------------|---|
| I. <u>B</u> Earth ✓ | A. Movement of planet Earth around the sun. |
| II. <u>D</u> Rotation ✓ | B. Third planet in the solar system. 3 |
| III. <u>A</u> Revolution ✓ | C. An imaginary line about which a body rotates. |
| IV. <u>C</u> Axis ✓ | D. Movement of planet Earth around its own axis. |
| V. <u>E</u> Constellation ✓ | E. A group of stars that makes a pattern in the nighttime sky |

2. (L3) Read and answer the following question:

What is a shadow? (ESS 3.1.2)

- ☒ a. A blob that is on the ground.
☒ b. a dark area or shape that is created when an object blocks the light.
☐ c. Particles that your body is discarding (getting rid of).

3. (L3) Use the word bank to fill in the blanks below (one word will not be used) (ESS 3.1.1)

Word Bank: one star orbit third sun planet solar system

Earth has only one ✓ moon.

Earth is the third ✓ planet from the sun.

The sun is a star ✓ that all the planets in our solar system revolve around.

The Earth is only one of many planets that orbit ✓ around the sun.

Earth is a planet ✓ in the solar system ✓.

4. (L3) Read and answer the following questions:

- a. Why do shadows change length and direction throughout the day? Use the diagram to help you answer this question. (ESS 3.1.2)



it is because the sun is somewhere else in the day/ the earth is rotating so when it's morning the sun is at the east and when it's evening it is in the South and when it's the afternoon it is at the west

b. How long does it take the Earth to make a complete revolution around the sun? (ESS 3.1.1)

365 days / 1 year



c. What object is the center of our solar system? (ESS 3.1.1)

the SUN ☼



d. A Kindergartener said to you, "I see the sun moving across the sky." What would you say back to them to teach them what is actually happening? (ESS 3.1.3)

✓ "That is a great answer, but actually, WE are moving around the sun. That is what causes summer through winter. You'll learn more about in 3rd grade."

e. During the summer, you look for the constellation Orion at night, but you can't find it! Why are you unable to see Orion in the summer like you can in the winter? (ESS 3.1.3)

✓ it is because the earth is revolving around the sun so when it was winter, we could see it but when it is summer, the Orion is at the other side of the sun.

5. (L4) Read and answer the following questions:

a. True or false? Answer by writing T or F on the line after each question.

i. Phases of the Moon are caused by a shadow from the Earth, clouds, or the Earth's or Moon's rotation.

✓ F

ii. The Moon does not rotate.

T

iii. The Moon has gravity.

F

iv. Different countries see different phases of the Moon on the same day.

T