Checkout Questions

Lab 6. Strength of Gravitational Force

How Does the Gravitational Force That Exists Between Two Objects Relate to Their Masses and the Distance Between Them?

1. The diagrams below show two objects and the distance between them.



Which two objects have the greater gravitational attraction between them?

- a. The objects in diagram A
- b. The objects in diagram B
- c. The gravitational attraction between the objects is the same in diagrams A and B
- d. Unsure

How do you know?

2. The diagrams below show two objects and the distance between them.



Which two objects have the greater gravitational attraction between them?

- a. The objects in diagram A
- b. The objects in diagram B
- c. The gravitational attraction between the objects is the same in diagrams A and B.
- d. Unsure

How do you know?

- 3. Once a scientist or a team of scientists develop a scientific law, it will never change.
 - a. I agree with this statement.
 - b. I disagree with this statement.

Explain your answer, using an example from your investigation about gravitational force.

- 4. Cultural values and expectations determine who gets to do science, what scientists choose to investigate, how investigations are conducted, and how research findings are interpreted.
 - a. I agree with this statement.
 - b. I disagree with this statement.

Explain your answer, using an example from your investigation about gravitational force.

5. Scientists often need to look for and understand the underlying cause of patterns in data. Explain why it is important to be able to identify and understand patterns in data in science, using an example from your investigation about gravitational force.

6. Scientists often look for proportional relationships between two or more quantities in science. Explain what proportional relationships are and why they are important in science, using an example from your investigation about gravitational force.