Louisiana Sample Questions 5th Grade Science

1. A student argues that stars appear dimmer than the Sun because they are farther away from Earth. Which experiment using a lamp and light meter that measures brightness will provide data to support the argument?

C

Α	Test	Lamp	Distance: Light to Light Meter (meters)
	1	lamp with one light bulb	10
	2	lamp with one light bulb	10

Test	Lamp	Distance: Light to Light Meter (meters)
1	lamp with two light bulbs	10
2	lamp with one light bulb	10

Test	Lamp	Distance: Light to Light Meter (meters)
1	lamp with one light bulb	10
2	lamp with one light bulb	50

Test	Lamp	Distance: Light to Light Meter (meters)
1	lamp with two light bulbs	10
2	lamp with one light bulb	50

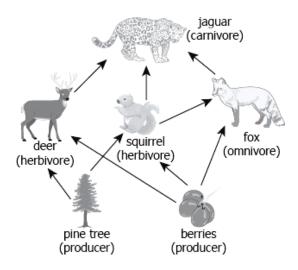
2. A student adds 10 grams of salt and 10 grams of sand to a cup of water. The sand, salt, and water are stirred for 2 minutes. The student observes that the sand forms a layer at the bottom of the cup, while the salt is not visible.

Which statement explains the student's observations?

- **A** Salt is completely soluble in water, while sand is not soluble in water.
- **B** Sand is less dense than water, while salt is more dense than water.
- **C** Sand particles are bigger than salt particles.
- **D** Salt particles are lighter than water and sand.

В

3. The image shows a food web.



How do deer obtain food?

- **A** by eating berries only
- **B** by eating jaguars only
- **C** by eating jaguars and squirrels
- **D** by eating pine trees and berries

4. A teacher mixes bananas, strawberries, and milk to make a drink.



The bananas, strawberries, and milk have a total mass of 10 grams before the teacher mixes them. What is the mass of the drink after mixing?

- A 5 grams
- **B** 6 grams
- C 8 grams
- **D** 10 grams