

I19.

| AMOUNT OF OXYGEN PRODUCED IN A POND | |
|-------------------------------------|---------------------|
| Location | Oxygen Produced |
| Top Meter | 4 grams/cubic meter |
| Second Meter | 3 grams/cubic meter |
| Third Meter | 1 gram/cubic meter |
| Bottom Meter | 0 grams/cubic meter |

Which statement is consistent with the data in the table?

- A. More oxygen production occurs near the surface because there is more light there.
- B. More oxygen production occurs near the bottom because there are more plants there.
- C. The greater the water pressure, the more oxygen production occurs.
- D. The rate of oxygen production is not related to depth.

I19.

| AMOUNT OF OXYGEN PRODUCED IN A POND | |
|-------------------------------------|---------------------|
| Location | Oxygen Produced |
| Top Meter | 4 grams/cubic meter |
| Second Meter | 3 grams/cubic meter |
| Third Meter | 1 gram/cubic meter |
| Bottom Meter | 0 grams/cubic meter |

Which statement is consistent with the data in the table?

- A. More oxygen production occurs near the surface because there is more light there.
- B. More oxygen production occurs near the bottom because there are more plants there.
- C. The greater the water pressure, the more oxygen production occurs.
- D. The rate of oxygen production is not related to depth.

Reproduced from TIMSS Population 2 Item Pool. Copyright © 1994 by IEA, The Hague

| Subject | Item Key | Content Category | Performance Expectation | International Average Percent of Students Responding Correctly | | International Difficulty Index |
|---------|----------|------------------|---------------------------------|--|-------------|--------------------------------|
| | | | | Upper Grade | Lower Grade | |
| Science | A | Life Science | Investigating the Natural World | 53% | 45% | 582 |