

Cellular Respiration Lab



Problem: How does exercise affect disposal of waste (CO_2) from cellular respiration? Does gender have an effect on cellular respiration rates?

Hypothesis:

- How will exercise affect the rate of cellular respiration? _____
- What gender will have a higher rate of cellular respiration (males or females)? _____

Dependent Variable: _____

Independent Variable: _____

Constants: _____

Materials: 2 small test tubes, bromothymol blue, 10 ml graduated cylinder, 2 straws, test tube rack, clock or stopwatch

Procedure:

1. Record your hypothesis, as to how exercise will affect your body's production of CO_2 and which gender will have a higher rate of cell respiration?
2. Label two test tubes: A and B.
3. Put 10 ml of water in each test tube.
4. Put three drops of bromothymol blue in each test tube. (Bromothymol blue will turn from blue to yellow or green in the presence of carbon dioxide- CO_2)
5. When your partner says "go", gently blow air through the straw into the bottom of test tube A. **CAUTION:** Do not inhale through the straw!
6. Your partner will record the time it takes for the color in test tube A to change.
7. Now jog in place for 1 minute and repeat steps 3- 6 using test tube B.
CAUTION: If you feel dizzy or weak while exercising, stop immediately and sit down.
8. When you are finished with your activity, record your results on the board so that your teacher can calculate a class average.

Data Collection:

Gender M or F (circle)	Time for solution to change color(sec)	Average Time for Girls (sec)	Average Time for Boys (sec)
Before exercise			
After exercise			

*Graph class averages, not individual data

Carolina Student Guide Cell Respiration Lab Answers

Camilla Rothe



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