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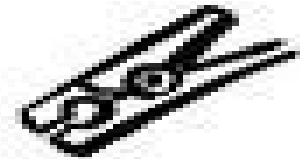
Date: _____
Teacher: _____

Clotbustin Lab / Muscle Fatigue

Aim: To understand the effects of anaerobic metabolism on muscles.

Aerobic Respiration

Under normal conditions, muscles use oxygen to make ATP from glucose. This process is very efficient and produces 36 ATPs for each molecule of glucose. Carbon dioxide and water are the waste products of this process.



1. From one molecule of glucose, the aerobic respiration produces _____ ATPs.
2. The waste products of aerobic cellular respiration are _____.

Anaerobic Respiration

When muscles do active exercise, they need more oxygen to make ATP than the blood can supply. At this point, the muscle is forced to produce ATP without oxygen.

Anaerobic respiration produces only **2 ATPs** for one molecule of glucose. The product of this reaction is **lactic acid**.

The advantage of anaerobic respiration one that the muscle cell can continue to make ATP without oxygen and it can make ATP very quickly. This a particular advantage when lifting heavy objects. The big disadvantage to anaerobic respiration is that it produces lactic acid which gives muscles a **burning feeling**. **Muscle fatigue** results when the need for ATP is greater than the rate at which ATP can be produced in the muscle. Under condition of extreme fatigue cannot contract or relax.

3. Without oxygen, the anaerobic respiration produces _____ ATPs from one molecule of glucose.
4. In muscle cells, another product of anaerobic cellular respiration is _____.
5. When a person experiences muscle fatigue, he/she cannot _____.

Materials

- Clotbustin pin



- Timer



Making Connections Clothespin Lab Answers

Minjie Lin



Making Connections Clothespin Lab Answers:

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Reviewing the Living Environment Biology Rick Hallman, Woody, 2004-04-19 This review book provides a complete review of a one year biology course that meets the NYS Living Environment Core Curriculum Includes four recent Regents exams

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The Impact of State and National Standards on K-12 Science Teaching Dennis W. Sunal, Emmett L. Wright, 2006-06-01 This book addresses the expectations toward the science standards of various stakeholders including students parents teachers administrators higher education science and science education faculty members politicians governmental and professional agencies and the business community This book also investigates how the science standards have been translated into practice at the K 12 school district level addressing issues around professional development curriculum assessment evaluation and accountability The fundamental questions to be addressed are 1 What is the response in terms of trends and patterns of the educational system to the introduction of the national and state science standards since

the late 1980 s and 2 What is the impact of the introduction of the science standards on teachers classrooms and students

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