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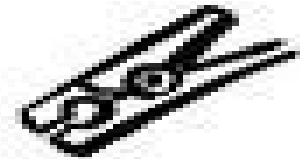
Date: \_\_\_\_\_  
Teacher: \_\_\_\_\_

### 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

**M Woodhall**



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for each  $t$  let the value of the curve  $c(t)$  have entries  $(c(t))_{i,j}$ . Then the formula for matrix ... Solution manual to „An

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