

Questions  
(think of questions that might be on the exam)

IV. Respiration

A. What is \_\_\_\_\_

1. **Respiration** - is the process by which cells obtain \_\_\_\_\_ from \_\_\_\_\_.

- Cells \_\_\_\_\_ food molecules and release the \_\_\_\_\_ they contain.

2. Storing and Releasing Energy

- Plants \_\_\_\_\_ they gain in the form of carbohydrates (\_\_\_\_\_).
- Cells break down the \_\_\_\_\_ when they need \_\_\_\_\_

3. Breathing and Respiration

- Respiration has \_\_\_\_\_ meanings
  - "\_\_\_\_\_ " - air \_\_\_\_\_ and \_\_\_\_\_ of lungs
  - \_\_\_\_\_ Respiration - process inside of cells breaking down \_\_\_\_\_ into \_\_\_\_\_

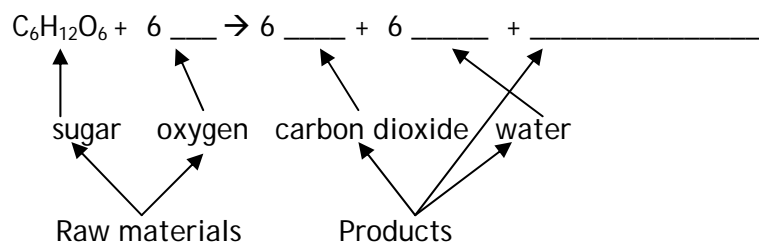
4. The \_\_\_\_\_ Stages of \_\_\_\_\_

1. Stage 1 takes place in the \_\_\_\_\_
- \_\_\_\_\_ is broken in to \_\_\_\_\_ molecules
  - No \_\_\_\_\_ is involved
  - \_\_\_\_\_ amount of energy released

2. Stage 2 takes place in the \_\_\_\_\_
- \_\_\_\_\_ molecules broken down even \_\_\_\_\_
  - Requires \_\_\_\_\_
  - Releases \_\_\_\_\_ amount of energy

5. The Respiration Equation

- Raw Materials = \_\_\_\_\_ and \_\_\_\_\_
- Products = \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_



Q. Which process- photosynthesis or respiration- produces water?

6. Comparing Photosynthesis and Respiration

- \_\_\_\_\_ processes
- Cycle that keeps \_\_\_\_\_ and \_\_\_\_\_ fairly \_\_\_\_\_ in the atmosphere

B. Fermentation

- Some cells obtain \_\_\_\_\_ with out \_\_\_\_\_
- **Fermentation**- process of \_\_\_\_\_ energy from sugar

- Releases much \_\_\_\_\_ energy than \_\_\_\_\_

1. Alcoholic Fermentation

- Occurs when \_\_\_\_\_ and other single celled organisms \_\_\_\_\_
- Products= \_\_\_\_\_, \_\_\_\_\_ and a small amount of \_\_\_\_\_
- Important process in \_\_\_\_\_ and \_\_\_\_\_

2. Lactic Acid Fermentation

- Takes place in your \_\_\_\_\_
  - EX: \_\_\_\_\_
- Occurs when \_\_\_\_\_ cells use up \_\_\_\_\_ faster than it could be replaced
- Product= \_\_\_\_\_
  - Makes \_\_\_\_\_ feel weak and \_\_\_\_\_

Summary (5 sentences)