BIO 9 **Cellular Respiration Amoeba Sisters Video Questions 7 min** Name:

<https://www.youtube.com/watch?v=4Eo7JtRA7lg>

As you watch the video, fill in the missing information.

1. Adenosine Triphosphate (**ATP**) is a type of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

2. In the formula for cellular respiration, the **reactants** (inputs) are on the \_\_\_\_\_\_\_\_\_\_\_\_\_-side, while the **products** are on the \_\_\_\_\_\_\_\_\_\_\_\_\_\_-side.

3. **Photosynthesis** makes glucose, while **cellular respiration** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ glucose.

4. Cellular respiration has \_\_\_\_\_\_\_\_\_\_\_ **major steps** (for eukaryotic cells), and the **first step** is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

5. The **second** step of cellular respiration is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Cycle (“Citric Acid” Cycle).

6. While **glycolysis** takes place in the cytoplasm and does not need oxygen, the **Krebs cycle** takes place in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and *does* need oxygen.

7. The **third step** of cellular respiration is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ chain.

8. The **enzyme** that assists the third step is **ATP\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

9. The **products** of the electron transport chain are **ATP and** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

10. Some cells can make ATP by **fermentation** when there is no \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_available.

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