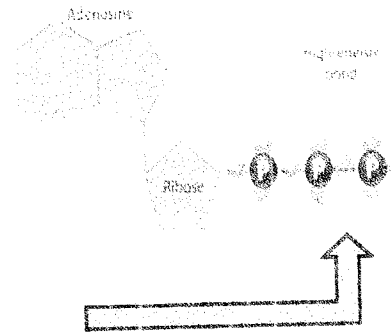


- a. When \_\_\_\_\_ are \_\_\_\_\_, energy is released.
- b. Energy from the broken bonds of \_\_\_\_\_ (from food) is converted into \_\_\_\_\_ molecules.
- c. \_\_\_\_\_ provides energy (gasoline) for chemical reactions in the cell.

**B. Adenosine Triphosphate**

- a. Made of an adenosine molecule with (tri) phosphate groups attached
- b. By **breaking the bond** between the **phosphate**, \_\_\_\_\_ for all cellular processes.



**V. What are the sources of ATP for living organisms?**

**A. Autotrophs:**

- a. Make their own food using the energy in \_\_\_\_\_ (some autotrophs use \_\_\_\_\_)
- b. Sun's energy is converted into the \_\_\_\_\_ within the \_\_\_\_\_ of plant cells

**B. Heterotrophs:**

- a. Must \_\_\_\_\_ other organisms for \_\_\_\_\_
- b. \_\_\_\_\_ is converted into the bonds of \_\_\_\_\_ within the \_\_\_\_\_ of the cell.



**VI. Energy on Planet Earth**

- A. The ultimate **source of energy** on planet earth is the \_\_\_\_\_
- B. Sunlight is a special form of electromagnetic energy called the \_\_\_\_\_ (think of a rainbow)
- C. The flow of energy through living things begins with \_\_\_\_\_
- D. During photosynthesis, plants absorb \_\_\_\_\_ and \_\_\_\_\_ wavelengths (colors.)
- E. The wavelengths you see are \_\_\_\_\_ to your eyes.

