**Biology Note-Taking Guide**

**8.1: Energy and Life**

* **Chemical Energy and ATP**
  + Forms of energy
  + This process of organisms getting and using energy is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
  + Living things use a form of chemical energy called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (\_\_\_\_\_).

Picture of ATP molecule

* + Energy within the ATP molecule is stored within the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ bonds.
  + When the phosphate bond in ATP is broken, ATP becomes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (ADP) and energy is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Picture of ADP molecule

* + When a phosphate is added to ADP, ADP becomes ATP again and energy is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_!

Use the picture to explain how ATP is like a rechargeable battery.

