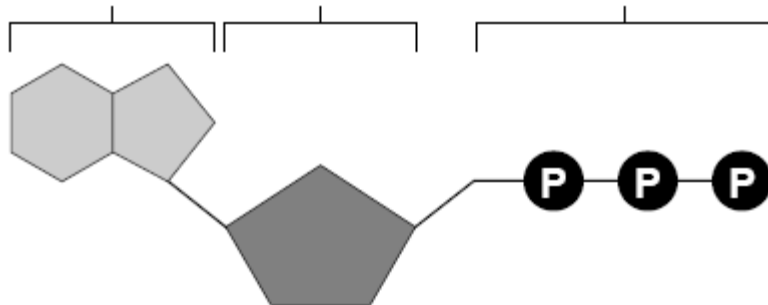


Worksheet: Chemical Energy and ATP

BIOLOGY

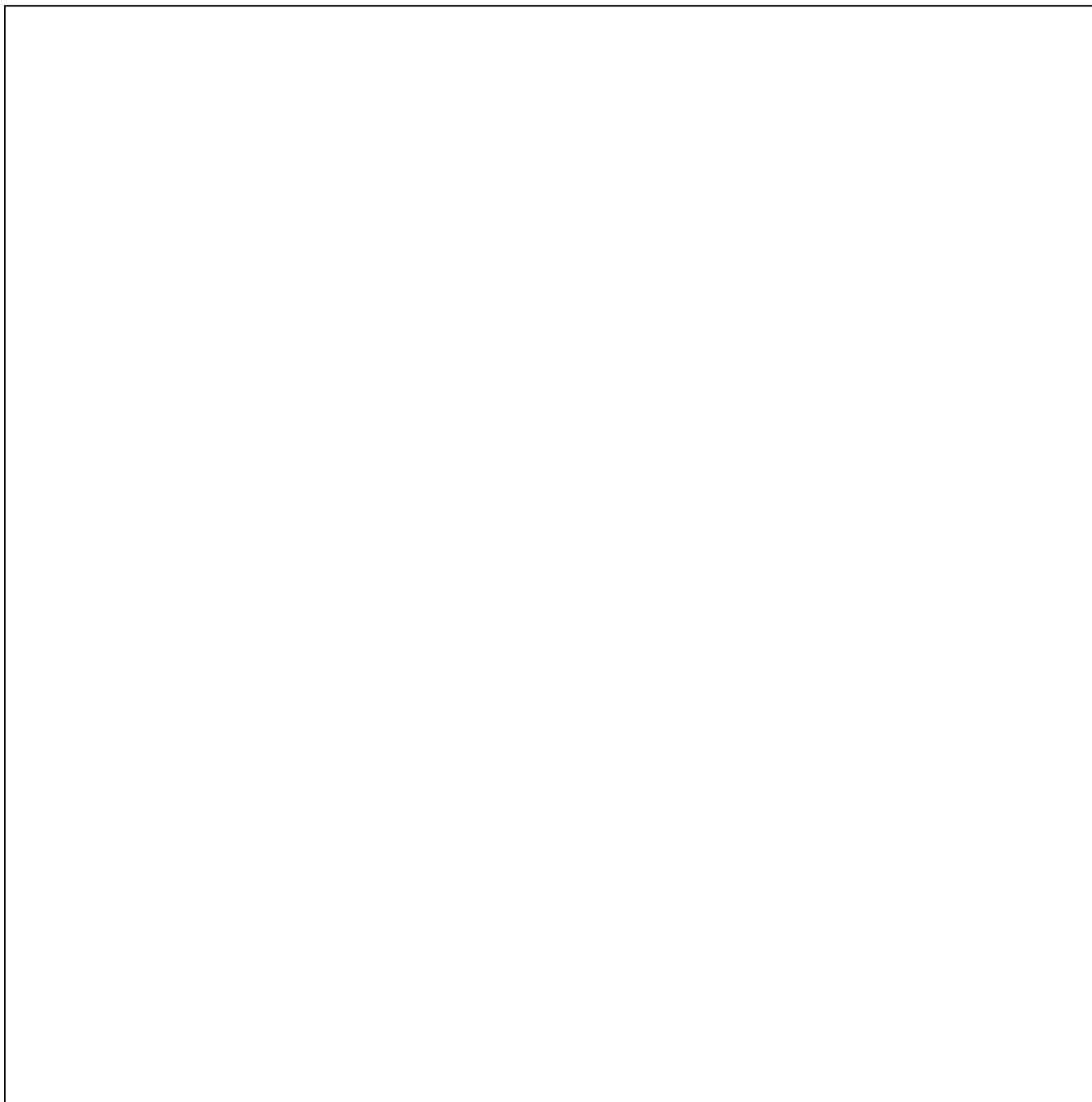
Directions: Answer the following questions using your class notes and textbook. (pages 100-102)

1. What type(s) of **carbon-based molecules** (organic compounds) are the source for most of the energy in the foods you eat?
2. Where is the **energy** stored in these molecules?
3. What is **ATP**?
4. What is **ATP** used for in cells?
5. Identify the parts of an ATP molecule below: (Label **adenosine**, **ribose**, and **phosphate molecules**)



6. How is energy stored in the ATP molecule?
7. What happens to the ATP molecule when a **phosphate group** is removed? (what does it turn into?)

8. Draw a diagram below showing the cycle of ATP and ADP below (see **Figure 4.2** on page 101)



9. What type of organic compounds store the most energy? The least?

10. How do **plants** produce ATP?