1. Which of the following statements about ATP is TRUE?

   ATP is…

   a. a nucleoside, but is not considered a nucleotide until it is incorporated into RNA.
   **b. not incorporated into DNA, but is used in DNA synthesis by helicase.**
   c. not incorporated into DNA, but is used in DNA synthesis by topoisomerase I.
   d. the product of many biological reactions because energy is released when a phosphate group is added onto ADP.

2. Which of the following is evidence supporting endosymbiotic theory?

   The observation…

   a. that prokaryotic cells can never form internal membranes.
   b. of cells that contain mitochondria, but not a nucleus.
   c. that phagocytosis likely evolved after the LECA.
   **d. of a double membrane around chloroplasts.**

3. What is a DIFFERENCE between uracil and thymine?

   a. Uracil is only found on mRNA, whereas all other nucleotide chains contain thymine.