

17. List the four main macromolecules (carbohydrate, protein, lipid, nucleic acid) and some of their biological uses.
18. Mark as true or false and explain why:
- _____ Lipids are water soluble.
 - _____ Fats are made of glycerol and fatty acids only
 - _____ Fats have a higher proportion of energy rich C-H bonds and thus more stored energy than carbohydrates.
 - _____ Cholesterol is fat.
19. How do enzymes (biological catalysts) accelerate a reaction?
20. How does energy get transferred in redox reactions?

These are the four Big Ideas that you are going to study this year. For each one, write a brief description.

Big Idea 1: The process of evolution drives the diversity and unity of life.

Big Idea 2: Biological systems utilize free energy and molecular building blocks to grow, to reproduce, and to maintain dynamic homeostasis.

Big Idea 3: Living systems store, retrieve, transmit, and respond to information essential to life processes.

Big Idea 4: Biological systems interact, and these systems and their interactions possess complex properties.