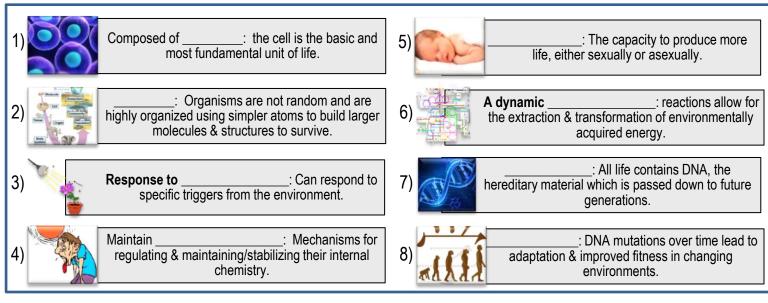
CONCEPT: CHARACTERISTICS OF LIFE

• There are _____ characteristics shared by <u>all</u> living organisms that distinguish them from nonliving matter.

EXAMPLE: Characteristics of Life

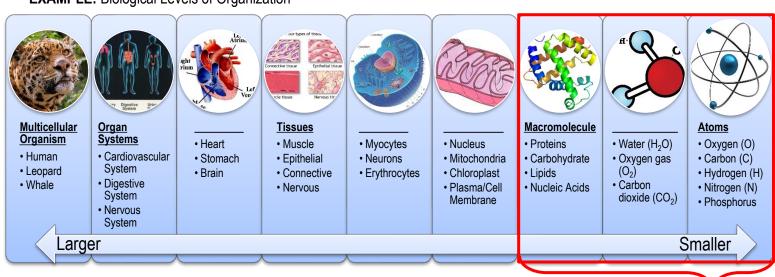


- Viruses are not considered alive.
 - □ Question: Which characteristics of life do they lack? ____, ____, ____,

Envelope
Capsid
Nucleic
Acid

•All living organisms contain a biological hierarchy of organization:

EXAMPLE: Biological Levels of Organization



●The Biochemical Unity of Life: all living organisms are remarkably similar at the molecular/atomic levels of life.

 $\hfill \Box$ Lots of evidence at atomic/molecular levels support the theory of a common universal ancestor. Biochemical Unity of Life



CONCEPT: CHARACTERISTICS OF LIFE

PRACTICE: Which of the following is not a characteristic of life?

- a) Ability to reproduce sexually or asexually.
- b) Composed of cells.
- c) Ability to metabolize oxygen.
- d) Maintain homeostasis.

PRACTICE: Indicate which of the following statements is false:

- a) Viruses contain hereditary information.
- b) Viruses do not have the ability to reproduce without hijacking a host cell.
- c) Viruses are composed of cells.
- d) Viruses do not need to extract/consume energy from the environment to exist.