Learning Objective

(a) Mutations are changes in the genome that can result in

Evolution — the changes in organisms over generations
The brain is the body’s most complex organ.

Neurons communicate using electrical and chemical signals.

Genetically determined circuits are foundation of the nervous system.

Life experiences change the nervous system.

Intelligence arises as brain reasons, plans, and solves problems.

The brain makes it possible to communicate knowledge through language.

The human brain endows us with a natural curiosity to understand how the world works.

Fundamental discoveries promote healthy living and treatment of disease.