

# Biology | Science Power Standards

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1. Explains the role of complex molecules in essential cellular and life functions.
2. Explains the role of cellular structures in essential life functions.
3. Explains how genetic information encoded in DNA/RNA molecules regulates protein production, cell growth and division, and genetic variation.
4. Explains how matter is cycled and energy is transferred through ecosystems.
5. Explains and evaluates the factors that affect population growth and population dynamics in an ecosystem.
6. Explains the major factors that determine biological evolution.
7. Explains how the factors that determine biological evolution account for the diversity of life on Earth.
8. Infers evolutionary relationships in the biological classification of organisms.
9. Recognizes when a systems approach is appropriate; if so, describe the interdependence of a system's components and predict the consequences of changes to the system.
10. Applies the scientific inquiry process to investigate the natural world.
11. Explains and applies communication, collaboration, and scientific honesty to the advancement of science.
12. Explains how science and technology are essential in solving critical issues that affect society, and analyze critical issues that influence society.