



Composting

Genetics

2. A typical cell of any organism contains genetic instructions that specify its traits. Those traits may be modified by environmental influences. As a basis for understanding this concept:
 - a. Students know the differences between the life cycles and reproduction methods of sexual and asexual organisms

Stormwater Urban Runoff

Earth and Life History

4. Evidence from rocks allows us to understand the evolution of life on Earth. As a basis for understanding this concept:
 - f. Students know how movements of Earth's continental and oceanic plates through time, with associated changes in climate and geographic connections, have affected the past and present distribution of organisms.

ALL GENERATION EARTH PROJECTS CAN ALSO BE LINKED TO THE GRADE 7 INVESTIGATION AND EXPERIMENTATION SCIENCE STANDARDS (Section 7).

7. Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will:
 - a. Select and use appropriate tools and technology (including calculators, computers, balances, spring scales, microscopes, and binoculars) to perform tests, collect data, and display data.
 - b. Use a variety of print and electronic resources (including the World Wide Web) to collect information and evidence as part of a research project.
 - c. Communicate the logical connection among hypotheses, science concepts, tests conducted, data collected, and conclusions drawn from the scientific evidence.
 - d. Construct scale models, maps, and appropriately labeled diagrams to communicate scientific knowledge (e.g., motion of Earth's plates and cell structure).
 - e. Communicate the steps and results from an investigation in written reports and oral presentations.