

# ES6 Grade 6: Environmental Sustainability - Composting and Planting

Content Area: **Generic Content Area**  
Course(s): **Generic Course**  
Time Period: **Generic Time Period**  
Length: **45 days**  
Status: **Published**

## Established Goals/Standards

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SCI.HS-LS2-5	Develop a model to illustrate the role of photosynthesis and cellular respiration in the cycling of carbon among the biosphere, atmosphere, hydrosphere, and geosphere.
SCI.HS-LS2-3	Construct and revise an explanation based on evidence for the cycling of matter and flow of energy in aerobic and anaerobic conditions.
TECH.8.2.8	Technology Education, Engineering, Design, and Computational Thinking - Programming: All students will develop an understanding of the nature and impact of technology, engineering, technological design, computational thinking and the designed world as they relate to the individual, global society, and the environment.

## Essential Questions

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- How does composting impact the environment?
- What is organic gardening and why is it important?

## Enduring Understanding

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- Chemicals and pesticides can harm the environment even as they are helping produce profitable crops.
- Every person is responsible for helping to keep the environment healthy.
- Working together each person's decisions will have an impact on the environment.

## Content

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Details of how to properly compost:

- cold vs. hot
- rates of turning
- how to set up composting rotation
- how to build a compost "fence"

Tending to organic garden:

- understanding the life cycle of each type of plant
- using natural resistance such as marigolds or ladybugs to remove pests

- weeding
- harvesting

## **Resources**

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various YouTube videos on composting.