

# Suggested Curriculum #1

- In “[How Should Our Gardens Grow?](#)”, the first **lesson** in this suggested curriculum, the students “learn about types of land use by humans and evaluate the ways land is used in their local community.” It is estimated that this lesson should take approximately **50 minutes**. Listed below are the learning objectives as described in the lesson plan:
  - Understand and identify the different ways that land is used by humans.
  - Discuss the environmental effects of different land cover/land use decisions.
  - Describe different types of engineers involved in community planning.
  - Write an essay on land use from the viewpoint of a planning engineer.
- The next segment is “[Composting -- Nature’s Disappearing Act](#)”. This portion is an **activity** and involves multiple days to complete although the estimated total time is **95 minutes**. The materials are listed in the activity plan and the estimated cost is minimal; however, teachers should look at the materials list to make sure they don’t already have the supplies or could ask students to bring them in. It is also important that the teacher has a place to store the “landfills” that has sunlight “but where odor is not bothersome.” The following are the learning objectives of the activity:
  - Define biodegradable and non-biodegradable.
  - Explain how engineers work to reduce solid waste.
  - Gather and record data and observations based on a landfill experiment.
- The last segment of this suggested composting curriculum is a **lesson** titled “[3RC \(Reduce, Reuse, Recycle, Compost\)](#)”. It is estimated that this lesson will take approximately **50 minutes**. The lesson plan includes a background summary of information for the teacher that is relevant to the lesson objectives, of which are listed below.

- Explain different methods of waste disposal.
- Explain some of the major problems that waste disposal causes.
- Explain 3RC (reduce, reuse, recycle, compost).
- Describe the different steps involved in integrated waste management.
- Identify ways engineers are involved in 3RC and solid waste management.