	About This Module
Overview	Through hands-on activities and games, youth learn what happens to waste, how it affects our environment, and how they can make a difference.
Guiding Questions*	<ul> <li>What trash items decompose quickly, and which items take a long time?</li> <li>How can we reduce, reuse and recycle our trash?</li> <li>What items can be composted, and why is composting important?</li> <li>What conditions are needed to make compost?</li> <li>*Guiding questions are not specifically asked in the activities themselves but are meant to guide your preparation and facilitation of the module. Keep these questions top of mind so you can help youth make connections and capture key takeaways relating to the topic.</li> </ul>
Activity 1	A Very Old Picnic  Youth analyze how long it takes various items leftover from a picnic to decompose. They discuss the impact litter has on our environment and ways to reduce waste.
Activity 2	Recycle Relay  Youth learn the importance of recycling, composting and reducing waste; what can and cannot be recycled and composted; and that trash doesn't just disappear when the trash truck picks it up.
Activity 3	Compost Tag  Youth play games to learn what materials can and cannot be composted. They learn that compost can make rich soil and reduce the amount of waste going to landfills.
Activity 4	Compost in a Cup  Youth make a mini compost in a cup to learn the science behind composting and discover how microorganisms in the soil help to break down organic material into compost.



Key Terms		
Decompose	To decay or break down into smaller parts through chemical change; rot.	
Trash	Something that gets disposed of.	
Landfill	An area of land in which wastes are placed for permanent disposal.	
Reduce	Using less so that less waste is generated. For example, using both sides of paper to reduce the amount of paper needed.	
Recycle	Transforming waste materials into usable resources. For example, sending used paper to a recycling facility to be made into newspaper.	
Compost	A mixture of decaying organic matter, such as fruit and vegetable waste, leaves and grass. Compost can be added to soil to enrich it.	
Microorganism	A living thing of microscopic size (e.g., bacteria, fungus).	

Supplies			
	Handouts		
	1	Rates of Decomposition	
	1	Ways to Pack a Waste-Free Picnic	
	Supplies Needed		
	1 per participant	Ultimate Journey Passports saved from previous activities	
		Whiteboard or flipchart paper and markers	
	1	Ball or other object	
	1	Stopwatch	
Activity 1: A Very Old Picnic	For each participant	Picnic-related snacks	
,	2+ sheets per small group	Paper	
	1 per small group	Pen or pencil	
	1 set per small group	Markers, crayons or colored pencils	
		Banana peel	
	Large bag with the following items that might be left over from a picnic:	Orange peel	
		Apple core	
		Paper towel, soiled	
		Newspaper	

Supplies			
	Large bag with the following items that might be left over from a picnic (cont'd.):	Plastic foam	
		Milk carton	
		Waxed paper	
		Steel can	
Activity 1: A Very Old Picnic		Aluminum can	
7, 10,1, 0,11, 10,110		Plastic storage bag	
		Plastic soft drink rings	
		Plastic soda bottle	
		Glass bottle	
	Handouts		
	1	Recycle, Compost, Throw Away or Reuse Chart	
	4 sets	Recycle Relay Cards	
	Supplies Needed		
	1 per participant	Ultimate Journey Passports saved from previous activities	
	1	Flying disk or soft playground ball	
		Таре	
	4	Containers or large boxes	
	4 sheets	Paper	
Activity 2:	16 sheets	Card stock, if possible	
Recycle Relay	4	Markers	
	4	Scissors	
	1	Trash bag	
	Clean trash items:	Old piece of clothing	
		Plastic soda bottle	
		Newspaper	
		Glass jar	
		Printer paper, used	
		Cardboard	
		Magazine	

Supplies			
Activity 2:		Paper towel	
	Clean trash	Aluminum can	
Recycle Relay	items (cont'd.):	Plastic foam cup	
		Milk carton	
	Handouts		
		None	
	Supplies Needed		
	1 per participant	Ultimate Journey Passports saved from previous activities	
		Whiteboard or flipchart paper and markers	
		Computer or projector to display videos	
Activity 3:	1	Soft playground ball	
Compost Tag		Cup of soil	
		Newspaper	
	Composting supplies:	Leaves	
		Grass	
		Twigs	
		Banana or orange peel	
		Tea bag or coffee grounds	
		Handouts	
	1	Compost Record Chart	
	1	Compost Cup Predictions	
	Supplies Needed		
A ativity 4	1 per participant	Ultimate Journey Passports saved from previous activities	
Activity 4: Compost in a Cup	Optional	Camera or other device to take pictures	
		Newspaper to cover tables	
	1+	Spray bottle	
	several	Trays to store the compost cups	
	1+ per tray	Thermometer	
	1 per participant	16-ounce cup	

Supplies			
	1+	Permanent marker	
	1 small piece per participant	Plastic wrap	
	1 per participant	Rubber bands	
	1 per participant	Metal spoons or trowels	
Activity 4:	Organic material cut into small pieces, including:	Leaves	
Compost in a Cup		Grass	
		Twigs	
		Banana peels	
		Orange peels	
		Apple cores	
		Tea bag or coffee grounds	

### **Background Information**

Reduce, Reuse, Recycle – youth have probably heard this slogan, but have they ever stopped to think about these questions:

- How much waste do I produce each day?
- Where does that waste go?
- How does waste impact our environment?
- How can I make a difference?

Through hands-on activities and games, participants will discover the answers to these questions and learn:

- How long it takes various waste items to decompose.
- · Ways to reduce the amount of waste they generate.
- What items can be recycled, reused or composted.
- How to pack a waste-free picnic.

Skills		
Academic Skills	Social-Emotional Skills	
Curiosity	Communication	
Creativity and Innovation	Collaboration	
Designing and Constructing Explanations	Identifying and Solving Problems	

### **Links to Resources**

## **Activity 3:** Compost Tag

"Composting 101: How to Compost in NYC" (youtube.com/watch?v=0hPCkEaMkQU)

"How to Compost in Small Spaces Using a Trash Can" (youtube.com/watch?v=A0EPnJJw198)

"How to Compost - 8 Methods (One Is Creepy)" (youtube.com/watch?v=xnOdc6kbJhl)

#### **Extension Activities**

# Activity 2: Recycle Relay

- Discuss what the Club can do to keep local parks and community areas clean.
- Consider hosting a clean-up day at your Club or at a nearby park.

#### Activity 4: Compost in a Cup

- Once the three-week composting experiment concludes, invite participants to add their compost to flower and garden beds around the Club or outside their homes. Reflect with a discussion about the value of compost to enrich the soil and to give plants the nutrients they need to grow.
- If your Club does not yet have a composting program in place, have members
  brainstorm how they can create a Club composting program. Discuss how composting
  can be as simple as keeping a pile of grass clippings and leaves. However, a small
  enclosure helps contain the compost, and a completely enclosed compost bin keeps
  rodents and other pests out.
- If your Club does not yet have a compost program, consider scheduling a visit to a community garden or another nearby place that offers such a program.

**Note to Facilitator:** Portions of Activities 2-4 should be conducted outdoors. Check the weather and schedule the activities for a clear, sunny day.