

Lesson Time:
60 minutes

Plastic Recycling



Photo Taken From: <http://www.ocpaddler.com/files/plastic2.jpg>

Objectives

Students will complete a chart containing the characteristics of different plastics.
Students will answer questions about plastic based on their completed chart.

Standards

- E.12.C.4 Students know processes of obtaining, using, and recycling of renewable and nonrenewable sources. E/S
- N.12.A.1 Students know tables, charts, illustrations and graphs can be used in making arguments and claims in oral and written presentations. E/S
- N.12.B.4 Students know scientific knowledge builds on previous information. E/S
- N.12.B Students understand the impacts of science and technology in terms of costs and benefits to society.

Materials Needed

30	Single subject notebooks
6	Dry erase markers
1	Whiteboard
7	3ft X3ft Fact sheets (data)
14	Box containing 14 assorted plastic items, 2 from each number. Refer to examples on handouts.

Anticipatory Set

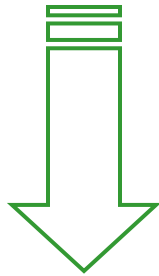
Write the lesson objectives on the whiteboard (or show on overhead). Discuss with the students what the objectives of the lessons are.

Objective: Students will know and identify different types of plastic.

Objective: Students will complete a chart containing the characteristics of different plastics.

Objective: Students will answer questions about plastic based on your completed chart.

Distribute handouts or prepare overhead.



Introduction:

“Today we are going to talk about plastic. There are different types of plastics that are made for different uses. Let us take a look at these plastics and see if they can be recycled in Nevada.”

Modeling / Guided Practice

1. The students should be in preselected groups of five.
2. Arrange the group's desks into a square table.
3. Have one of the students from each group come up to the front of the room to get a 3ft X 3ft data sheet, and a plastic information handout. One per group, each a different number, as the group will become experts on one specific plastic.
4. Have the students spread the sheet out on the desks.

Modeling / Guided Practice

5. Explain to the students that they are to record the data from the information handout to the 3ft X 3ft sheet in a presentable manner that will be used to present that specific plastic to the class.
6. Each group will take a turn verbally presenting the information on their 3X3 sheet to the class. They also must find two of their numbered plastics in the box during the presentation. All students need to record all information for all plastics on a chart of their own. This chart will be used to help answer the worksheet questions.
7. Follow along to make sure each group is presenting all of the information on their specific plastic. Support them if needed.
8. 3ft X 3ft sheets of paper may be taped to the whiteboard or any wall space available in the room.
9. Once all groups have presented, have students turn in the plastic information handout.
10. Have the students complete the questions on their worksheets.
11. Scaffold for support.
12. When the students have completed the worksheets, discuss.

**Optional online video clips; recycling plastics:

“The day in the life of a recycled bottle”

<http://www.youtube.com/watch?v=D34LS9Hacxk>

“How Plastic Gets Recycled”

<http://earth911.com/plastic/video-how-plastic-gets-recycled/>

“What Plastics Should I Avoid Buying”

<http://search.live.com/video/results.aspx?q=plastic+recycling+video&docid=799227904112&FORM=VIRE4#docid=509905010743>

Closure:

1. Take a few minutes to do a quick review of plastic recycling.
2. Check for understanding.

Independent Practice

Not applicable.