

Lesson Time:
60 minutes

Vocabulary

Raw material

Cullet

Mercury

Amalgam

Glass Recycling

(and Mercury Exposure)



Objectives

Students will examine facts about glass recycling.
Students will understand proper mercury disposal.
Students will translate text into test questions.

Standards

E.12.C.4 Students know processes of obtaining, using, and recycling of renewable and nonrenewable sources. 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	Handouts or an overhead
6	Dry erase markers
1	Whiteboard

Anticipatory Set

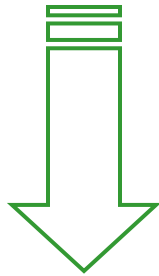
Write the lesson objectives and/or standards on the whiteboard.
Discuss with the students what the objectives and/or standards of the lessons are.

Objective: You will examine facts about glass recycling.

Objective: You will know and understand proper mercury disposal.

Objective: You will translate text into test questions.

Distribute handouts (or workbooks).



Introduction:

“Today we are going to talk about glass recycling. Glass is manmade and is produced by using natural raw materials. These materials are a non-renewable resource, but the glass can be recycled forever...”

Modeling / Guided Practice

1. Have the students write “test” questions based on the information in the packets (see support sheet).
2. Scaffold for support.
3. After 20 minutes, have the students pair up.

Modeling / Guided Practice

4. The students should discuss their questions with each other, looking for differences in questions/answers.
5. After approximately 10 minutes regain the attention of the class.
6. The teacher should return to the front of the class.
7. The teacher should call on students to quiz them with their questions for about 15 minutes.
8. Go over any information they did not cover with their questions.
9. Check for understanding.

**Optional online video clips: glass and mercury exposure

“How Glass Gets Recycled”

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

“Rumpke: Glass Recycling Process”

http://www.rumpkerecycling.com/recycling_basics/videos.aspx

Closure:

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

Independent Practice

Not applicable.