

Lesson Time:
60 minutes

Aluminum and Steel Recycling



Objectives

- Students will be able to identify aluminum and steel cans.
- Students will know how to recycle cans in Nevada.
- Students will know the history of cans.
- Students will be able to calculate aluminum conservation efforts.

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

Materials Needed

| | |
|----|--------------------------|
| 30 | Single subject notebooks |
| 6 | Dry erase markers |
| 1 | Whiteboard |
| 1 | Aluminum can |
| 1 | Steel can |
| | |

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.

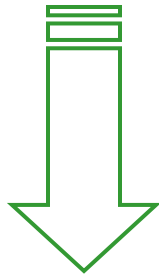
Objective: You will be able to identify aluminum and steel cans.

Objective: You will know how to recycle cans in Nevada.

Objective: You will know the history of cans.

Objective: You will be able to calculate your aluminum conservation efforts.

Distribute handouts or prepare overhead.



Introduction:

“Today we are going to talk about aluminum and steel recycling. Let us look first at the characteristics of aluminum and steel. We will then talk about how you can properly recycle them. Finally, we will learn where the “can” came from.”

Modeling / Guided Practice

1. At the board (or overhead), draw a T-chart.
2. Label one side “Aluminum” and the other “Steel.”
3. Ask the students to tell you some of the characteristics of aluminum cans.
4. If they have difficulty, direct the discussion.
(see support document)
5. Use an aluminum can as a guide.
6. Write these characteristics in the T-chart.

Modeling / Guided Practice

7. Ask the students to tell you some of the characteristics of steel cans.
8. If they have difficulty, direct the discussion.
(see support document)
9. Use steel can as a guide.
10. Write these characteristics in the T-chart.

11. Ask the students to tell you how to recycle aluminum cans in Nevada.
12. If they have difficulty, direct the discussion.
(see support document)
13. Write these characteristics in the T-chart.

14. Ask the students to tell you how to recycle steel cans in Nevada.
15. If they have difficulty, direct the discussion.
(see support document)
16. Write these characteristics in the T-chart.

17. Hand out the “The History of Can Making” (see support document or go to <http://cancentral.com/canc/text/history.htm>), and allow time for students to read silently.
18. Observe to see if students have any questions

**Optional online video clips on aluminum and aluminum recycling:

“Recycling a Can- Can Change the World”

<http://www.5min.com/Video/Recycling-A-Can---Can-Change-The-World-84372074>

“HowStuffWorks Show: Episode 6 Recycling Aluminum”

<http://videos.howstuffworks.com/discovery/35483-howstuffworks-show-episode-6-recycling-aluminum-video.htm>

“HowStuffWorks Show: Episode 6 Mining for Aluminum”

<http://videos.howstuffworks.com/discovery/35493-howstuffworks-show-episode-6-mining-for-aluminum-video.htm>



Closure:

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

Independent Practice

Not applicable.