

Then Importance of Oil in Our Lives

Grade: 2

Subject: Science

Objective: The students will correctly identify everyday household products that are produced from oil. The students will recognize oil to be an important natural resource.

State Standards: 2nd Grade Science

Earth Sciences 3e: Students know rock, water, plants, and soil provide resources, including food, fuel, and building materials, that humans use.

Investigation and Experimentation

4a: Make predictions based on observed patterns and not random guessing.

4c: Compare and sort common objects according to two or more physical attributes.

4g: Follow oral instructions for a scientific investigation.

Materials:

1. Cassette tape
2. Tylenol bottle
3. Hair clip
4. Fabric softener sheet
5. Tape
6. Pen
7. Tooth brush
8. Candle
9. Toy car
10. Plastic straw
11. Photograph

Procedure:

I. Introduction

A. Today we are going to sort through some household items to see if we can figure out something that they all have in common.

B. You will be sorting and organizing the items that are in this bag. You will be working with a partner for this investigation. (Separate students into partners.)

C. Before I pass out the materials bags, what are some characteristics that you can observe about these items. For example, what if this dry erase marker was in the bag? What are some observations we can make about this marker? (List student responses on the board.) Color, texture, weight, etc.

D. Pass out student materials bags.

II. The Investigation

A. With your partner you will have about 10 minutes to sort through these materials. Make sure to pay close attention to all of their characteristics.

B. All of these items have one main thing in common, see if you can figure out what it is. I will be passing around a handout for you to record your observations. Do not worry about spelling and do the best you can. (Let students work independently.)

C. Pass out observations handout. (attached)

D. Class discussion- Have students share their observations. Hear several observations about each item. Pull them out of the bag one at a time.

E. Did you notice any common characteristics that all of these items have?

F. Hear student observations and give feedback. You noticed that all of these items feel smooth.

G. All of these items have one very important thing in common. They are all made from petroleum/oil.

H. Recall that we recently talked about natural resources. Where do we get oil from. Yes, correct it is drilled from the ground. Oil is formed from the remains of plants and animals that died and settled to the bottom of ancient seas.

I. Another really common use for oil is gasoline that we use to fill our cars. The products that you investigated are all things that are made from oil. Anything that is plastic is produced from oil. Look around the room, what are some some things that you see that are produced from oil. (Make a list on the board.)

III. Conclusion

A. Today we observed and investigated some things that are made from oil. Would you agree that oil is a very important resource to us?

B. Some other examples of things made from oil are televisions, umbrellas, eye glasses, etc.

C. Can you imagine your life without all of these things.

D. There are two things that you need to do. I am passing around a word search that contains words that are all oil products. You will complete this with your partner.

E. Your second job is to find a product made from oil in your house. Make sure that it is something you can donate to our classroom. Tomorrow we will be building a display about oil using the products you bring. Everyone needs to contribute one item.

F. You have the next 10 minutes to work on the word search with your partner.

Assessment

Informal- student discussion and brainstorm

Formal- word search and observations handout

Name: _____ Date: _____

Product Observations

Item	Color	Texture	Other Obsver.
Cassette tape			
Tylenol bottle			
Hair clip			
Fabric Softener			
Tape			
Pen			
Tooth brush			
Candle			
Toy car			
Plastic straw			
Photograph			

What do you think all of these items might have in common?

Name: _____ Date: _____

Made From Oil

v p h p g g s m
i o a i l a h e
d o i t a s o d
e l r c s o e i
o r d h s l s c
t a r e e i t i
a f y r s n a n
p t e e r e p e
e c r c u p e a

gasoline hair dryer video tape
shoes glasses tape
cup pitcher medicine
pool raft