

Fat, Oil, and Grease



Learning Goals for this unit

- Students will monitor and explain a human impact on the environment
- Students will create an explanation as to what causes fat, oil, and grease to damage the environment
- Students will develop an action plan to spread awareness to the community about this human impact on the environment

Warm Up

1. First let's make a journal page title: **Fat, Oils, and Grease**
2. Take a look at the two pictures, on the the right side of your journal write (3) things you observe, (2) questions you have, (1) thing both images have in common.



Vocabulary Guessing Game 603

I will split the class into three sections. Each group will have (x) minutes to try and guess the definition for each word. Write down your group response on the paper provided

- Sanitary Sewer System
- Trans Fats

- Fats, Oils, Grease
- Sanitary Sewer Overflows

- Water Resource Recovery Facility,
- Discharge,

Let me ask you a question.....

What is the function of residential sewer transport system?

What happens to the waste-water when it leaves the school?

How are these questions related to our vocabulary words?

Note taking guide

Our learning goal:

Students will monitor and explain a human impact on the environment

Students will create an explanation as to what causes fat, oil, and grease to damage the environment

What should we take notes about?

- Human impact on the environment
- Explanations that tell me what cause FOG to damage the environment.

Exploring the effects of Fat, Oil, and Grease

What is the author's purpose in writing these articles and making these news videos?

<https://www.baltimoresun.com/maryland/baltimore-city/bs-md-ci-fatberg-20170925-story.html>

<https://www.youtube.com/watch?v=PhLSWdChv0Q>

<https://www.youtube.com/watch?v=kHJJJa0FmnWM>

Thinking Questions

What causes the creation of fatbergs? How do humans contribute to this environmental issues

What is the impact to the environment that humans create by causing fatbergs?

Checkpoint: What have learned so far?

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Student research

1. Next we will conduct some research.
The link to the right opens a presentation that will give us more information and resources.
 - a. We will first go over the powerpoint presentation together
 - b. Next we will look at 3 different sources of information
 - c. You will take notes in your journal like we did before

[FOG presentation](#)

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What have we learned so far?

Can we answer these questions about our learning goals?

- Did we monitor and explain a human impact on the environment?
- De we explain what causes fat, oil, and grease to damage the environment?

Student Service Project: Spreading Awareness

We will make a poster informing the public about the problems with Fat, Oil, and Grease and how it affects the environment. We will also include information as to how

End of class checkpoint

Answer the questions on the paper provided

- A. What causes the creation of fatbergs?
- B. When you pour fat, oil, and grease down the drain, what impact does this have on our environment

Word bank

Fatberg
Sanitary Sewer system
Water Resource Recovery Facility
Sewer
fat, oil, grease

Student Action Plan Rubric

Action plan.

- a. You will work in groups of 4 (no more than that)
- b. You will create a poster to spread awareness of the issues with FOG
- c. Next we will look at the rubric
- d. After you will plan out what you wish to create for your poster on scrap paper
- e. When you think you are ready ask Mr. Gonzalez for approval
- f. Begin working on your poster

Group Jobs

Materials Manager: I collect and put away materials

Voice Controller: I monitor our noise level

Scribe: I write things down for the group

Director: I keep the group on task, keep our work focused.

[Click here is see the rubric](#)