

EXTENSION 8.1.4 PLASTICS

Video #1: Watch the following video and give 2-3 examples of what each type of plastic is used for:

https://www.youtube.com/watch?v=EXUqPjnJMUE&feature=emb_logo

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.

Video #2: Watch the following video about how plastic is made and answer the following questions:


https://www.youtube.com/watch?v=lwdUwffecsM&feature=emb_logo


1. _____% of the items you use every day are made from _____.
2. Plastic is made from _____.
3. Natural gas, coal and oil are called _____.
4. Crude oil is broken down into different substances based on density. List those substances from LEAST dense to MOST dense:

Least: _____, _____, _____

_____, _____

Most: _____, _____

5. What other natural resources are used to make plastic besides oil? _____ & _____
6. Give examples of plastic items made from  PET

7. Give examples of plastic items made from  HDPE


8. Describe the process of recycling plastic _____

9. Name two products that can be made from recycled plastic. _____

10. It's up to us to use natural resources _____.

Plastic Identification

Directions: You will need to get 21 different plastic items from the counter (please only take 1-2 at a time). Make sure you have at least 3 of each number. Using the following website, fill in the following table about your 21 plastic items. <https://www.qualitylogoproducts.com/lib/different-types-of-plastic.htm>

Plastic Items	Plastic number 	Abbreviation	Polymer Name	Is it safe to put food in this plastic?	Is it recyclable?
- - -	1				
- - -	2				
- - -	3				
- - -	4				
- - -	5				
- - -	6				
- - -	7				

Questions: Using the website above, scroll down to the section titled "What are SPI codes?" You will find the answers to these questions as you read this section.

1. What year did the Society of Plastics Industry establish a classification for plastics?
2. What is an SPI code?
3. What type of plastic can absorb odors and flavors?
4. Is it safe to put food products in a plastic container that didn't originally contain food?
5. Which type of plastic is harmful if ingested?
6. Which type of plastic can withstand high temperatures?
7. What type of plastic is Styrofoam?
8. What type of plastic takes a lot of energy to recycle?
9. What type of plastic is the most difficult to recycle?
10. List 3 items on YOU or in your backpack that are plastic.