# **Plastic Pollution** Non-Fiction Article PDF & Digital Formats

2 Peas and a Dog Middle School Teaching Resources

### RESOURCE INCLUDES

- ☐ Lesson Plan
- ☐ Teacher Instructions
- ☐ Individual PDFs for Google
- Drive
- ☐ Google Slides for 1:1 Schools
- Audio file of the article
- ☐ Pre-reading K-W-L chart
- Non-fiction article (modified
- and regular levels) ■ 3 Post reading activities
  - ✓ Comprehension questions
    - ✓ Grammar questions
    - ✓ Long response writing

## **EXAMPLE PAGES**

### PLASTIC POLLUTION

A Brief History of Plastic n Brief history of Flustic Plastic is everywhere and has become part of everyday life. Objects such as food packaging, clothing, cars, and even smartphones have plastic

components Most countries use plastics every day and will probably continue to do so.

One of the first plastics ever used one or the files i plastics ever used was a naturally occurring substance known as rubber, sourced from the rubber tree. Rubber extracting involva process called tapping. Several diagonal incisions are made into a rubber tree's bark, extracting a sticky and milky sap called latex, which is the main component of many rubber

Synthetic Plastic and Polymerization synthetic Plastics successfully imitate their naturally made counterparts. Instead of using plastics made from a rubber tree, manufacturers used crude oil and natural gas to create plastics through the process of polymerization.

the molecules of crude oil and natural gas into chain-like molecules. These gus into chain—like Molecules. These chain—like, or connected, molecules of crude oil and natural gas become synthetic resins, the building blocks of ynthetic plastics.



The Rise of Synthetic Plastics Synthetic plastics first appeared in 1869 when John Wesley Hyatt invented it. People were looking for an alternative to ivary, which was the material used for creating billiard balls. Billiards was so popular that a New York firm offered a \$10,000 reward

Wesley was able to create a ball using nitrocellulose (plant fibers and nitric acid) and camphor. While he had invented a plastic that could be shaped into any form, it didn't make a quality billiard ball.

for anyone who could find a substitute

### K-W-L CHART

Topic: L What new things did I learn about this topic from the article? What do I already know What do I want to about this topic? know about this topic?

#### **ANSWERS**

- 1. Which of the following words matches this definition: the process of cutting lines into a rubber tree's bark in order to extract a sticky sap known as latex?
- Pollution Durable Synthetic Tapping

- 2. How many tons of plastic waste is discarded in our oceans every year?
- 1,907 million 8 million 1,869 million
- 400 million
- In the following sentence, which words are adjectives? "Natural materials such as steel, cotton, and glass were in short supply, so plastic became a likely substitute."
- Materials, supply
- Steel, plastic Natural, short
- Were, became
- In the following sentence, why is ocean NOT capitalized? They end up floating in the ocean, posing a danger to wildlife, and
- contaminating our primary food source.
- It is a noun, but not a proper noun.
  It a verb. Verbs are not capitalized.
  It is not a big enough word to be capitalized. It is an adjective. Adjectives are not capitalized.

## **K-W-L CHART**

Topic:

·				
K	W	L		
What do I already know about this topic?	What do I want to know about this topic?	What new things did I learn about this topic from the ticle?		
	© http://www.2peasandadog.com			

## PLASTIC POLLUTION

### A Brief History of Plastic

Plastic is everywhere and has become part of everyday life. Objects such as food packaging, clothing, cars, and even smartphones have plastic components. Most countries use plastics every day and will probably continue to do so.

One of the first plastics ever used was a naturally occurring substance known as rubber, sourced from the rubber tree. Rubber extracting involves a process called tapping. Several diagonal incisions are made into extractions are made into extractions are made into extractions are made into extractions. As a subber and milky sap called later much is main component of may subber products.

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polymeriza on.

Polymerization chemically transforms the molecules of crude oil and natural gas into chain—like molecules. These chain—like, or connected, molecules of crude oil and natural gas become synthetic resins, the building blocks of synthetic plastics.



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The Ris of Synthe. Bladic Synthetropistics firs a plant 1.8% when wesle of vent with the ple were land for an ernal eta ory, which was the referrial ed to aring billiard balls. 31 tds we so popular that a New firm a fered a \$10,000 reward for yone who could find a substitute for ivory.

Wesley was able to create a ball using nitrocellulose (plant fibers and nitric acid) and camphor. While he had invented a plastic that could be shaped into any form, it didn't make a quality billiard ball.

## **ANSWERS**

Instructions: Answer the following questions on this paper.

- 1. Which of the following words matches this definition: the process of cutting lines into a rubber tree's bark in order to extract a sticky sap known as latex?
- A. Pollution
- B. Durable
- C. Synthetic
- D. Tapping
- 2. How many tons of plastic waste is discarded but each vear?
- A. 1,907 million
- B. 8 million
- C. 1.869 million
- D. 400 million
- 3. In the following strence, while yours are lied est
  - "Nature are as steel, and lass were in short as last beca a likely such ate."
- A. Tate 5, 3
- B. eel, stil
- C. shor
- D. W became
- 4. In following sentence, why is ocean NOT capitalized?
  - "They end up floating in the ocean, posing a danger to wildlife, and contaminating our primary food source."
- A. It is a noun, but not a proper noun.
- B. It a verb. Verbs are not capitalized.
- C. It is not a big enough word to be capitalized.
- D. It is an adjective. Adjectives are not capitalized.

## THINKING QUESTION

Assessment	Below	Meets	Above
	Expectations	Expectations	Expectations
	<b>/</b>	<b>✓</b>	<b>*</b>

Plastics are everywhere. How can people reduce their use of plastics? Explain your thinking.