



Name _____ Class _____ Date _____

1 Which of the following foods do **not** contain any **food additives**?

- A hamburgers
- B fruit
- C soup
- D organic milk



3 **Polymers** are one of the components of our **muscles**. Which of these substances is a type of **polymer**?

- A protein
- B salt
- C sugar



2 This diagram of a chain of paper clips **represents** a type of _____.

- A compound
- B element
- C polymer
- D chemical bond



4 **Plastics** used to make soda bottles, electronics, and sporting equipment are made of synthetic polymers. A **synthetic polymer** is _____.

- A a man-made, single molecule
- B a natural, long molecule made of repeating units



PREVIEW

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7 **Natural additives** come from living things.
Artificial additives are found in nature.
Natural additives are man-made.

9 Which of the following is a use for a **food additive**?

- A preserve food from spoiling
- B help grow food
- C eliminate color from food
- D reduce the nutritional value of food



10 Low-density polyethylene is a synthetic polymer. In **box A**, what could be a **use** for this **polymer**?

- A a piece of pipe
- B a squeeze bottle
- C a foam coffee cup
- D car bumper

Polymer	Properties	Uses
polypropylene	rigid	toys, cars
low-density polyethylene	low melting point, flexible	A
high-density polyethylene	medium melting point and hardness	food and cleaning containers
PVC	flexible, tough, waterproof	B



ANSWER KEY

Which of the following foods do **not** contain any **food additives**?

- A hamburgers
- B fruit
- C soup
- D organic milk



(d)

This diagram of a chain of paper clips **represents** a **type** of _____.

- A compound
- B element
- C polymer
- D chemical bond



(C)

Polymers are one of the components of our **muscles**. Which of these substances is a type of **polymer**?

- A protein
- B salt
- C sugar
- D acid



(a)

Plastics used to make soda bottles, electronics, and sporting equipment are made of synthetic polymers. A **synthetic polymer** is _____.

- A a man-made, single molecule
- B a natural, long molecule made of repeating units
- C a man-made, long molecule made of repeating units

(C)



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D lettuce



- C Artificial additives are found in nature.
- D Natural additives are man-made.

Which of the following is a use for a **food additive**?

- A preserve food from spoiling
- B help grow food
- C eliminate color from food
- D reduce the nutritional value of food



(a)

Low-density polyethylene is a synthetic polymer. In **box A**, what could be a **use** for this **polymer**?

- A a piece of pipe
- B a squeeze bottle
- C a foam coffee cup
- D car bumper

Synthetic Polymers and their Uses		
Polymer	Properties	Uses
polypropylene	rigid	toys, cars
low-density polyethylene	low melting point, flexible	A
high-density polyethylene	medium melting point and hardness	food and cleaning containers
PVC	flexible, tough, waterproof	B

(b)