



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

- 1 Find polyvinyl chloride (**PVC**) on the chart. In **box B**, how could **PVC** be used?

- A packing peanuts
- B garden hoses
- C plastic bags
- D drinking straws

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

- 2 What **property** of **nylon** should be placed in **box C** of this chart?

- A porous
- B rigid
- C heavy
- D threadlike

Synthetic Polymers and their Uses		
Polymer	Properties	Uses
polystyrene	lightweight, flexible	foam insulation, foam dishes
nylon	C	kites, jackets, stockings
Teflon	D	nonstick surfaces, cooking pans

- 3 In the chart below, **Teflon** is used for nonstick cooking pans. What **property** of Teflon should be placed in **box D**?

- A it is flexible
- B it is porous
- C it melts easily
- D it is nonreactive

Synthetic Polymers and their Uses		
Polymer	Properties	Uses
polystyrene	lightweight, flexible	foam insulation, foam dishes
nylon	C	kites, jackets, stockings

- 4 Milk is being collected from these cows. The **protein** in milk is \_\_\_\_\_.

- A a synthetic polymer
- B a synthetic non-polymer



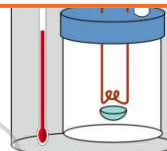
## PREVIEW

Please [Sign In](#) or [Sign Up](#) to download the printable version of this worksheet

- 7
- A is stronger
  - B stainless steel is more flexible
  - C stainless steel is less expensive
  - D stainless steel does not rust



- A degree
- B pound
- C calorie
- D watt



- 9 Which of the following items was one of the **first synthetic polymers** ever produced?

- A rubber
- B Teflon
- C wool
- D cotton



- 10 Composites **combine properties** of materials to achieve a desired result. What is the reason why wood is a **composite**?

- A it is made of a single polymer
- B it is artificially produced
- C it is naturally produced
- D it is made of two natural polymers





## ANSWER KEY

Find polyvinyl chloride (**PVC**) on the chart. In **box B**, how could **PVC** be used?

- A** packing peanuts
- B** garden hoses
- C** plastic bags
- D** drinking straws

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)

What **property** of **nylon** should be placed in **box C** of this chart?

- A** porous
- B** rigid
- C** heavy
- D** threadlike

Polymer	Properties	Uses
polystyrene	lightweight, flexible	foam insulation, foam dishes
nylon	C	kites, jackets, stockings
Teflon	D	nonstick surfaces, cooking pans

(d)

In the chart below, **Teflon** is used for nonstick cooking pans. What **property** of Teflon should be placed in **box D**?

- A** it is flexible
- B** it is porous
- C** it melts easily
- D** it is nonreactive

Polymer	Properties	Uses
polystyrene	lightweight, flexible	foam insulation, foam dishes
nylon	C	kites, jackets, stockings
Teflon	D	nonstick surfaces,

(d)

Milk is being collected from these cows. The **protein** in milk is

- A** a synthetic polymer
- B** a synthetic non-polymer
- C** a natural polymer



(c)



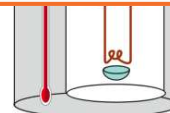
## PREVIEW

Please [Sign In](#) or [Sign Up](#) to download the printable version of this worksheet

- more flexible
- C** stainless steel is less expensive
- D** stainless steel does not rust



- C** calorie
- D** watt



Which of the following items was one of the **first synthetic polymers** ever produced?

- A** rubber
- B** Teflon
- C** wool
- D** cotton



(a)

Composites **combine properties** of materials to achieve a desired result. What is the reason why wood is a **composite**?

- A** it is made of a single polymer
- B** it is artificially produced
- C** it is naturally produced
- D** it is made of two natural polymers



(d)