



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                     | kies, 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**?

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



## PREVIEW

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7

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

is a \_\_\_\_\_.

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



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