

Discovering Properties of Matter

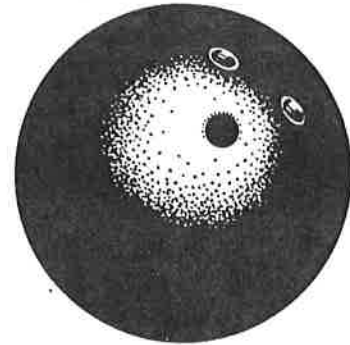
Everything shown on these pages is made of matter. Observe each picture carefully, then answer the questions.



marble



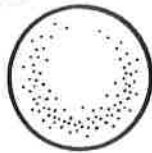
baseball



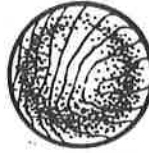
bowling ball

1. How are these objects different from one another? _____

How are they similar? _____



Ping-Pong



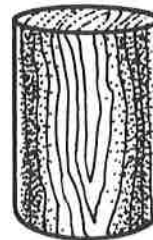
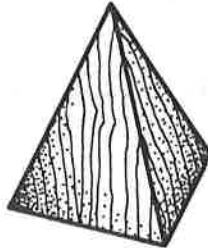
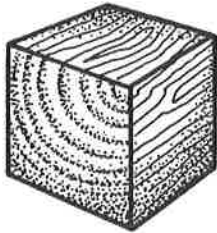
Wood



Steel

2. Tell how these objects are alike, and how they are different. _____

Suppose the objects were placed in water. What do you think would happen? _____



3. All of these objects are made of wood. How are they alike? _____

How are they different? _____



A



B



C

4. Describe the matter that fills each container. _____

Which of the three containers could hold the contents of the other two? _____



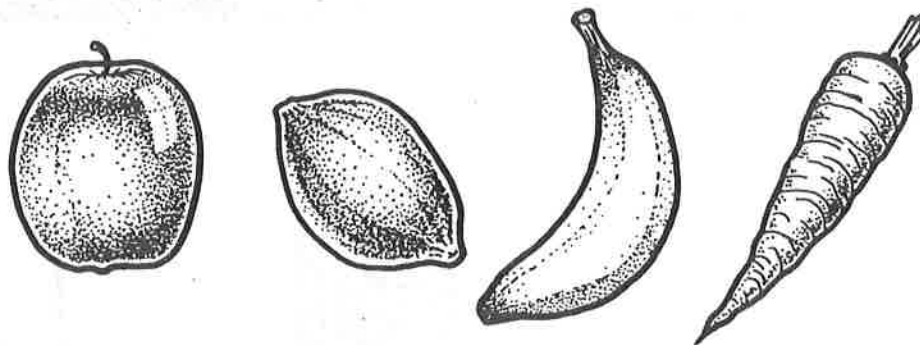
A



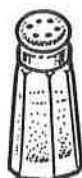
B

5. Describe the matter in balloon A. What is this substance doing to the balloon? _____

How is balloon B different from balloon A? What must be true about the matter inside balloon B? _____



6. Tell how these objects are alike, and how they are different. _____



Salt

A



Sugar

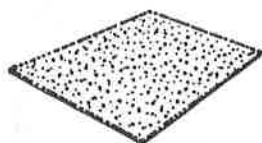


Perfume

B

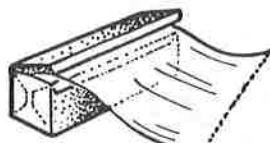


Ammonia



Sandpaper

C



Wax paper



Rock

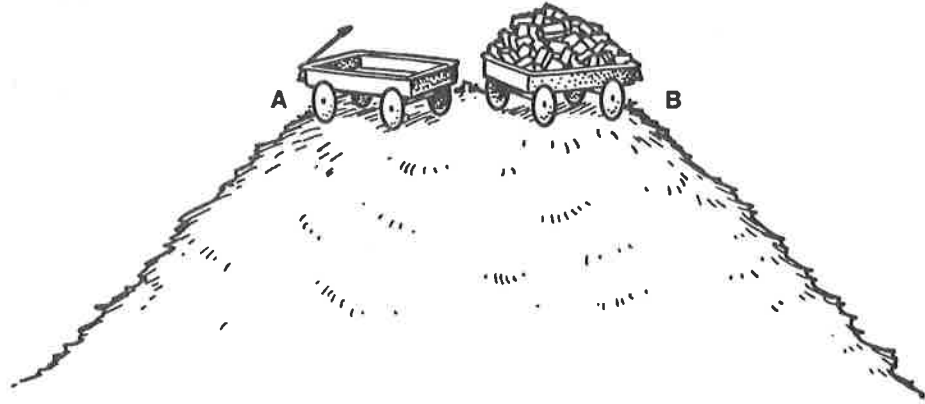
D



Cotton

7. Suppose that you were blindfolded. How could you tell the items in each pair apart?

- a. _____
- b. _____
- c. _____
- d. _____



8. Which object contains more matter? _____

Suppose each object were allowed to roll down the hill. Which do you think would be harder to stop? _____

Critical Thinking and Application

9. Based on your answers to questions 1 through 8, what do you think are some characteristics of all types of matter? _____

10. What are some characteristics that seem to be different for different types of matter? _____

