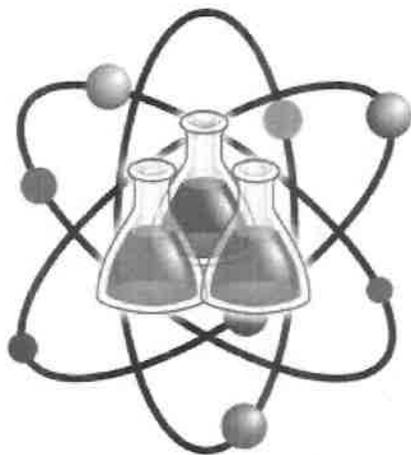


**My Science Journal  
(Solids & Liquids Module)**

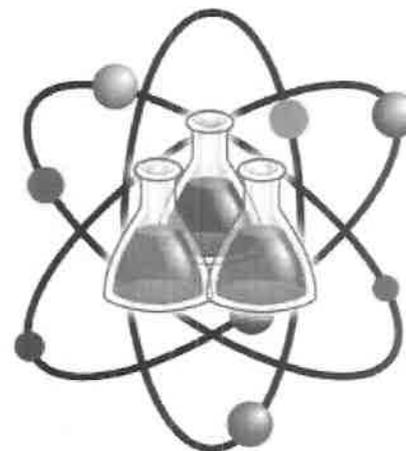
**Name** \_\_\_\_\_



**2nd Grade**

**My Science Journal  
(Solids & Liquids Module)**

**Name** \_\_\_\_\_



**2nd Grade**



## Object Materials

What are solid objects made of?

| Object  | Material |
|---|----------|
| Cylinder<br> |          |
| Triangle<br> |          |
| Tube<br>     |          |
| Cloth<br>    |          |
| Stick<br>   |          |
| Wire<br>   |          |
| Screw<br>  |          |

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| Stick<br>   |          |
| Wire<br>   |          |
| Screw<br>  |          |

How can solid objects be described?

How can solid objects be described?

### Properties of Solid Objects

| Object      | Cylinder  | Triangle  | Tube  | Cloth   | Stick  | Wire  | Screw   |
|-------------|---|---|---|---|--|---|---|
| Property    |  |  |  |  |  |  |  |
| Round       |   |   |   |   |  |   |   |
| Pointy      |   |   |   |   |  |   |   |
| Flexible    |   |   |   |   |  |   |   |
| Rigid       |   |   |   |   |  |   |   |
| Soft        |   |   |   |   |  |   |   |
| Hard        |   |   |   |   |  |   |   |
| Transparent |   |   |   |   |  |   |   |

### Properties of Solid Objects

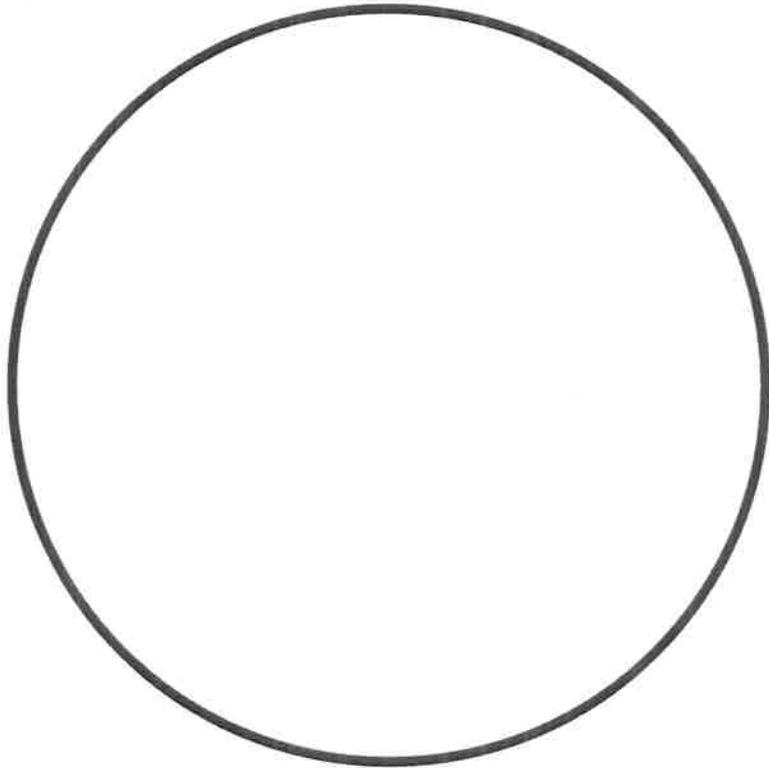
| Object      | Cylinder  | Triangle  | Tube  | Cloth   | Stick  | Wire  | Screw   |
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| Hard        |   |   |   |   |  |   |   |
| Transparent |   |   |   |   |  |   |   |

What are solid objects  
made of?

What are solid objects  
made of?

## Object Grouping

Can two or more objects have the same property?



These objects share the property of

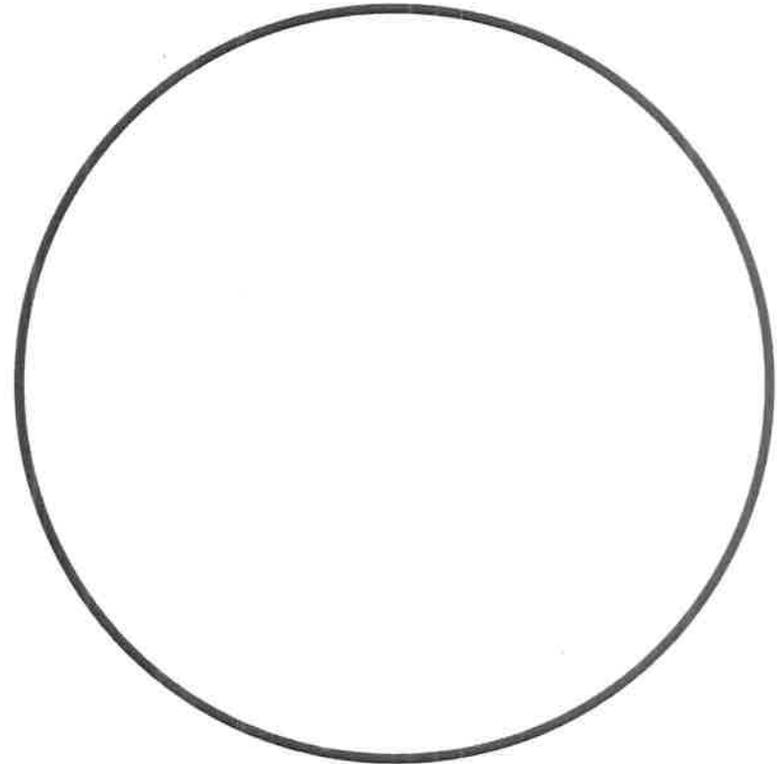
\_\_\_\_\_.

Objects that have this property can be used for

\_\_\_\_\_.

## Object Grouping

Can two or more objects have the same property?



These objects share the property of

\_\_\_\_\_.

Objects that have this property can be used for

\_\_\_\_\_.

Can two or more objects  
have the same property?

Can two or more objects  
have the same property?

## Towers

What are the properties of successful towers?

a. Draw a picture of your tower and label the parts.

b. Write about the properties of the top of your tower.

c. Write about the properties of the base of your tower.

d. Write about one part of your tower that was very important to its success in the wind.

## Towers

What are the properties of successful towers?

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c. Write about the properties of the base of your tower.

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## Outdoor Solids

What solid objects are outdoors?

| Object   | Twig | Paper |  |  |  |  |  |
|----------|------|-------|--|--|--|--|--|
| Property |      |       |  |  |  |  |  |
| Smooth   |      |       |  |  |  |  |  |
| Rough    |      |       |  |  |  |  |  |
| Flat     |      |       |  |  |  |  |  |
|          |      |       |  |  |  |  |  |
|          |      |       |  |  |  |  |  |
|          |      |       |  |  |  |  |  |

## Outdoor Solids

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| Flat     |      |       |  |  |  |  |  |
|          |      |       |  |  |  |  |  |
|          |      |       |  |  |  |  |  |
|          |      |       |  |  |  |  |  |

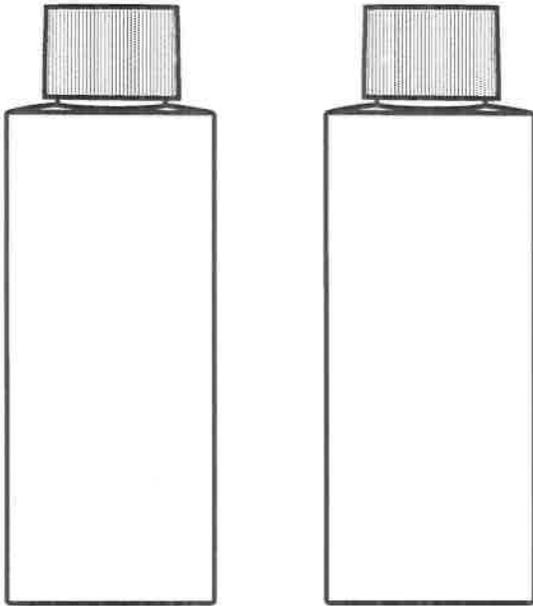
Are there solid objects  
outdoors?

Are there solid objects  
outdoors?

## Liquid Exploration

How are liquids different from each other?

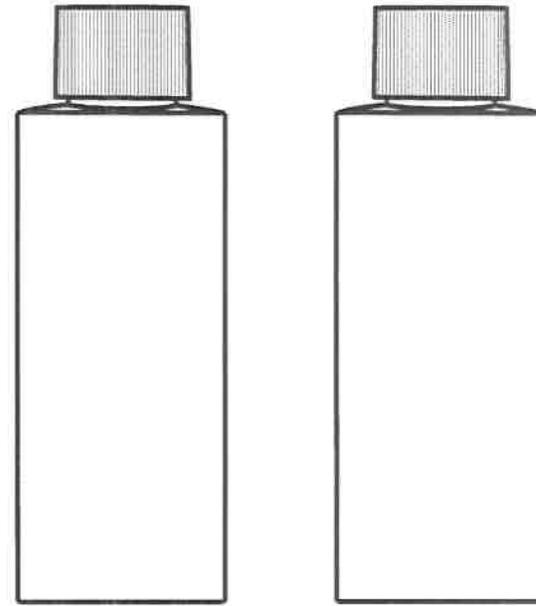
Some liquids are \_\_\_\_\_, but  
other liquids are \_\_\_\_\_.



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How are liquids different from each other?

Some liquids are \_\_\_\_\_, but  
other liquids are \_\_\_\_\_.



How are liquids different  
from each other?

How are liquids different  
from each other?

## Liquid Properties

How can liquids be described?

| <b>Object</b>   | Water | Hand soap | Oil | Corn syrup | Water with color | Dish soap | Starch |
|-----------------|-------|-----------|-----|------------|------------------|-----------|--------|
| <b>Property</b> |       |           |     |            |                  |           |        |
| Transparent     |       |           |     |            |                  |           |        |
| Translucent     |       |           |     |            |                  |           |        |
| Has color       |       |           |     |            |                  |           |        |
| Viscous         |       |           |     |            |                  |           |        |
| Bubbly          |       |           |     |            |                  |           |        |
| Foamy           |       |           |     |            |                  |           |        |

## Liquid Properties

How can liquids be described?

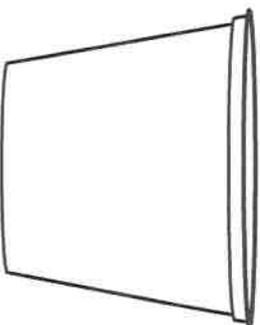
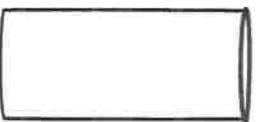
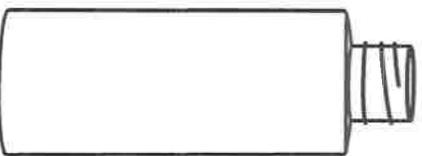
| <b>Object</b>   | Water | Hand soap | Oil | Corn syrup | Water with color | Dish soap | Starch |
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| Transparent     |       |           |     |            |                  |           |        |
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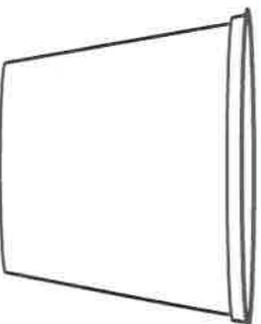
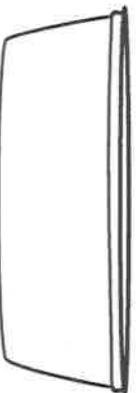
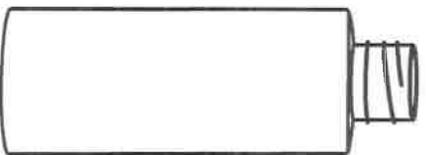
## Liquids in Containers

1. Put one small vial of water in each container.
2. Draw the level of the water in each container.



## Liquids in Containers

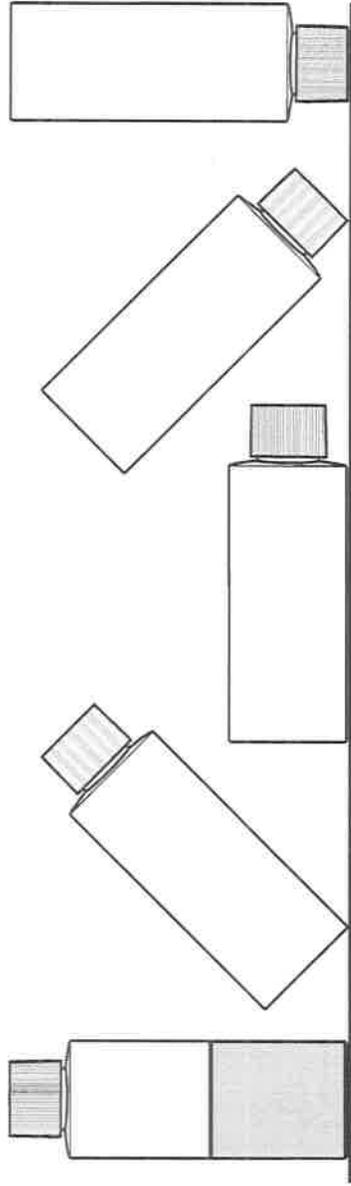
1. Put one small vial of water in each container.
2. Draw the level of the water in each container.





## Liquid Level in a Bottle

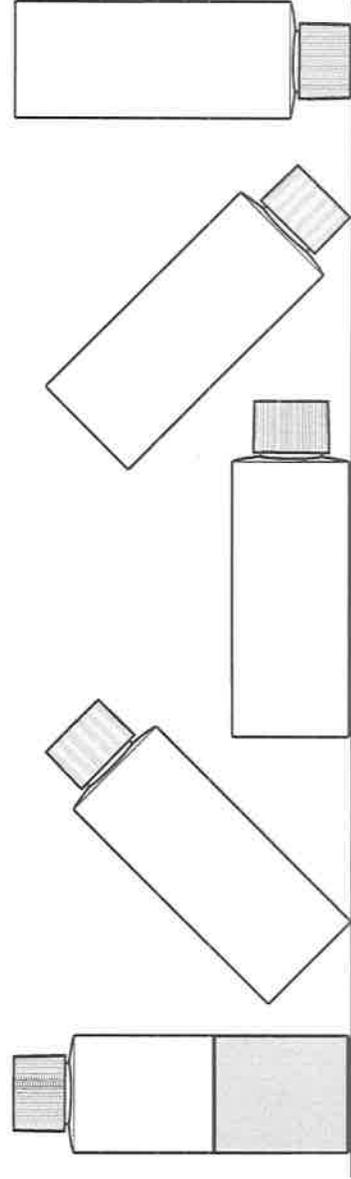
How does the liquid change when the bottle tips?



Draw what the liquid looks like in each picture as the bottle turns upside down.

## Liquid Level in a Bottle

How does the liquid change when the bottle tips?



Draw what the liquid looks like in each picture as the bottle turns upside down.

How do liquids change in containers?

How do liquids change in containers?

## Falling-Bottle Puzzle

How do liquids change in containers?

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When liquids are in containers, the liquids

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## Falling-Bottle Puzzle

How do liquids change in containers?

---

When liquids are in containers, the liquids

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---

---

Are these materials solid  
or liquid?

Are these materials solid  
or liquid?

## Soup Mix

How can mixtures of particles  
be separated?

Mixtures of particles can be separated by

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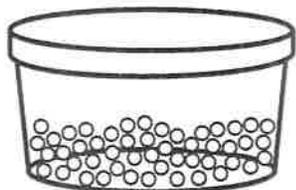
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How can mixtures of particles be separated?

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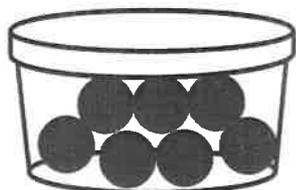
### Bead Mix A

Which screens can separate beads?



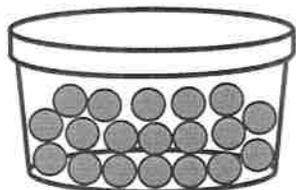
Which screens can these beads go through?

\_\_\_\_\_



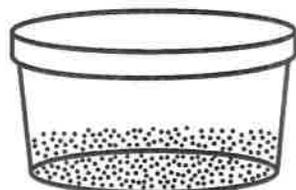
Which screens can these beads go through?

\_\_\_\_\_



Which screens can these beads go through?

\_\_\_\_\_

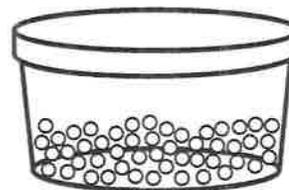


Which screens can these beads go through?

\_\_\_\_\_

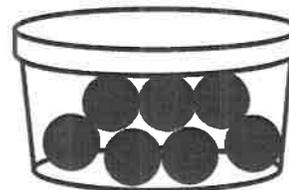
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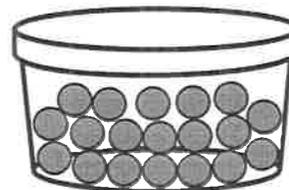
Which screens can these beads go through?

\_\_\_\_\_



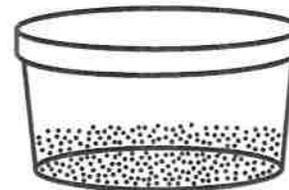
Which screens can these beads go through?

\_\_\_\_\_



Which screens can these beads go through?

\_\_\_\_\_



Which screens can these beads go through?

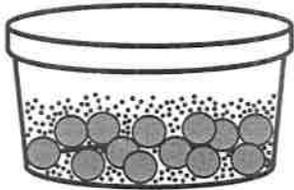
\_\_\_\_\_

How do particles of solids  
move in bottles?

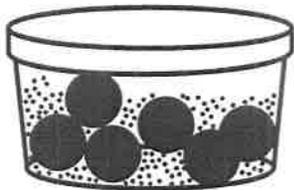
How do particles of solids  
move in bottles?

### Bead Mix B

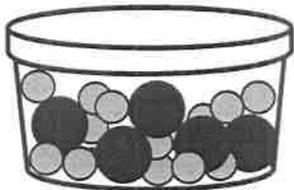
Which screens can separate beads?



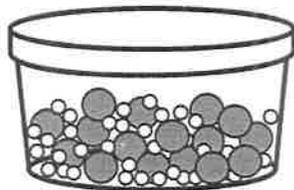
Which screens can separate this mixture?  
\_\_\_\_\_



Which screens can separate this mixture?  
\_\_\_\_\_



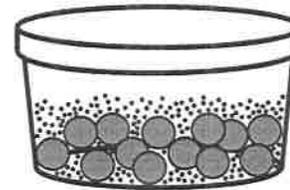
Which screens can separate this mixture?  
\_\_\_\_\_



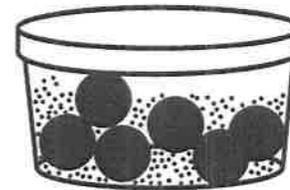
Which screens can separate this mixture?  
\_\_\_\_\_

### Bead Mix B

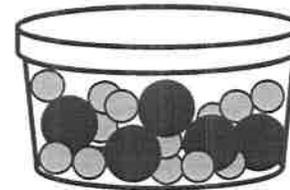
Which screens can separate beads?



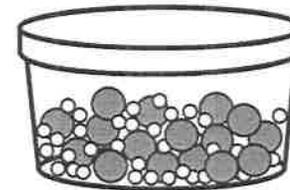
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\_\_\_\_\_



Which screens can separate this mixture?  
\_\_\_\_\_



Which screens can separate this mixture?  
\_\_\_\_\_



Which screens can separate this mixture?  
\_\_\_\_\_

Where are liquids outdoors?

Where are liquids outdoors?

What is a general rule for using screens to separate a mixture of small objects?

What is a general rule for using screens to separate a mixture of small objects?

## Particles Outdoors

Are there little pieces of solid material outdoors?

We found \_\_\_\_\_ outdoors.

We poured \_\_\_\_\_ and water on the ground.  
This is what we saw.

|       |           |
|-------|-----------|
|       |           |
| Water | Particles |

## Particles Outdoors

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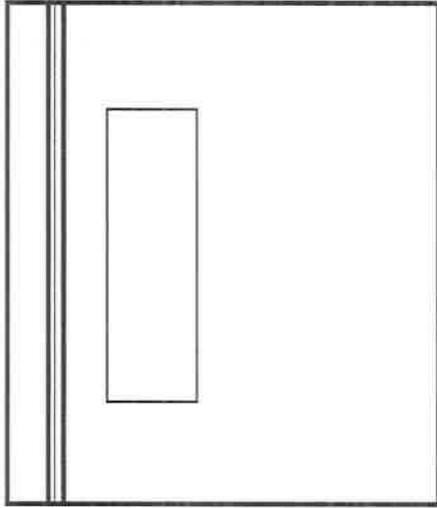
|       |           |
|-------|-----------|
|       |           |
| Water | Particles |

Are there little pieces of  
solid material outdoors?

Are there little pieces of  
solid material outdoors?

## Solid Materials in Water A

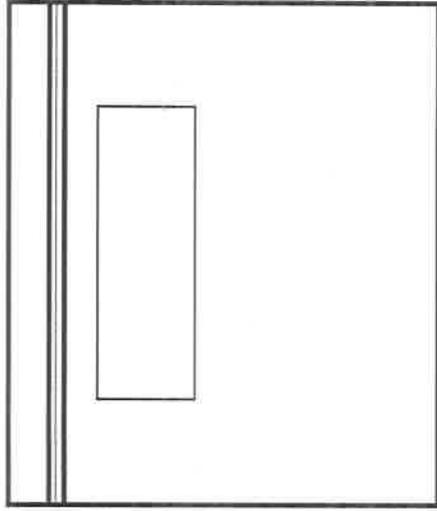
What happens when solids are mixed with water?



1. First, the solid was dry. The solid looked

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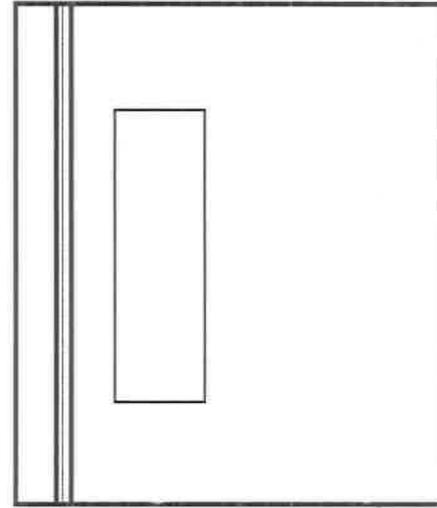
2. After a night in water, the solid looked

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## Solid Materials in Water A

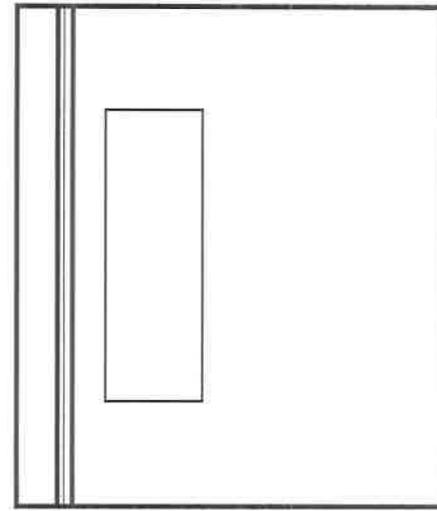
What happens when solids are mixed with water?



1. First, the solid was dry. The solid looked

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2. After a night in water, the solid looked

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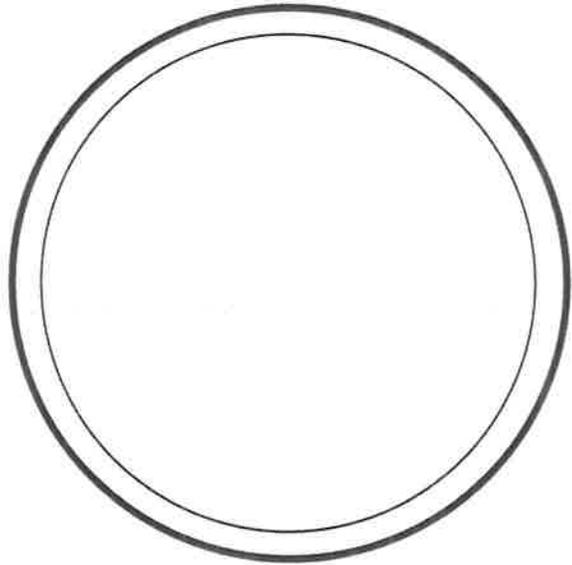
---

What happens when solids  
are mixed with water?

What happens when solids  
are mixed with water?

## Solid Materials in Water B

Record what your dry solid looks like.



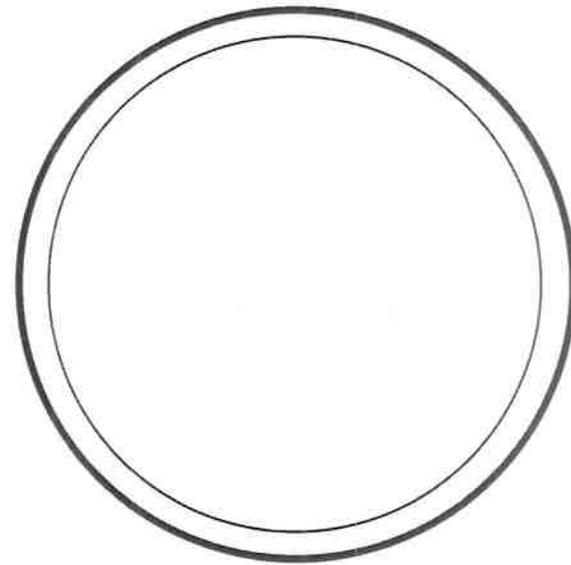
3. Then the water evaporated. The solid looked

---

---

## Solid Materials in Water B

Record what your dry solid looks like.



3. Then the water evaporated. The solid looked

---

---

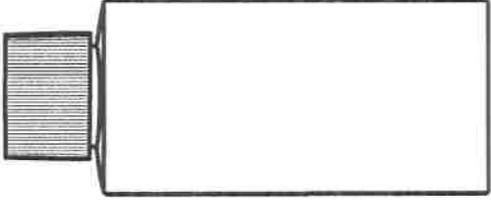


## Liquid with Water

What happens when \_\_\_\_\_ is mixed with water?



1. Add water. How does it look?



2. Shake it. How does it look?



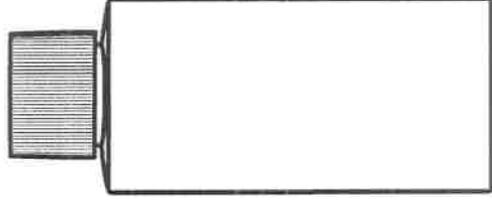
3. How does it look the next day?

## Liquid with Water

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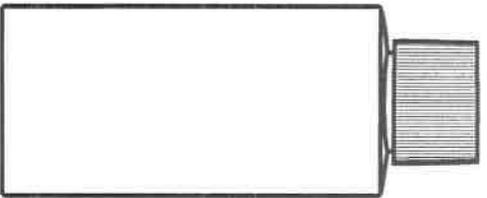
3. How does it look the next day?

What happens when  
liquids are mixed with  
water?

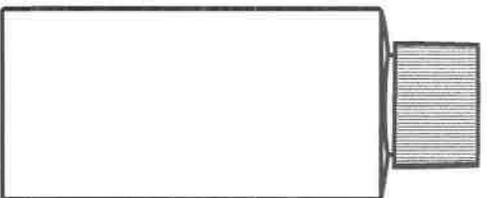
What happens when  
liquids are mixed with  
water?

## Investigating Toothpaste

Is toothpaste solid or liquid?



1. Add water. How does the toothpaste look?



2. Shake it. How does the toothpaste look?



3. After a day, how does the toothpaste look?

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## Changing Properties

How do properties of materials  
change when they are heated or cooled?

When it gets \_\_\_\_\_, a solid changes to  
a liquid.

We say the solid \_\_\_\_\_.

When it gets \_\_\_\_\_, a liquid changes to  
a solid.

We say the liquid \_\_\_\_\_.

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How do properties of materials change when they are heated or cooled?

How do properties of materials change when they are heated or cooled?

What happens when you mix water with solid plant material collected outdoors?

What happens when you mix water with solid plant material collected outdoors?