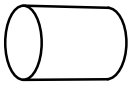
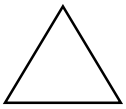
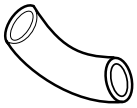
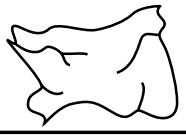
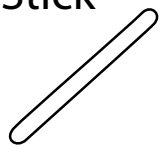
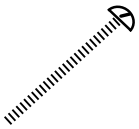
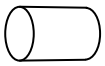
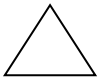
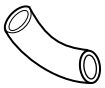
Object Materials

What are solid objects made of?

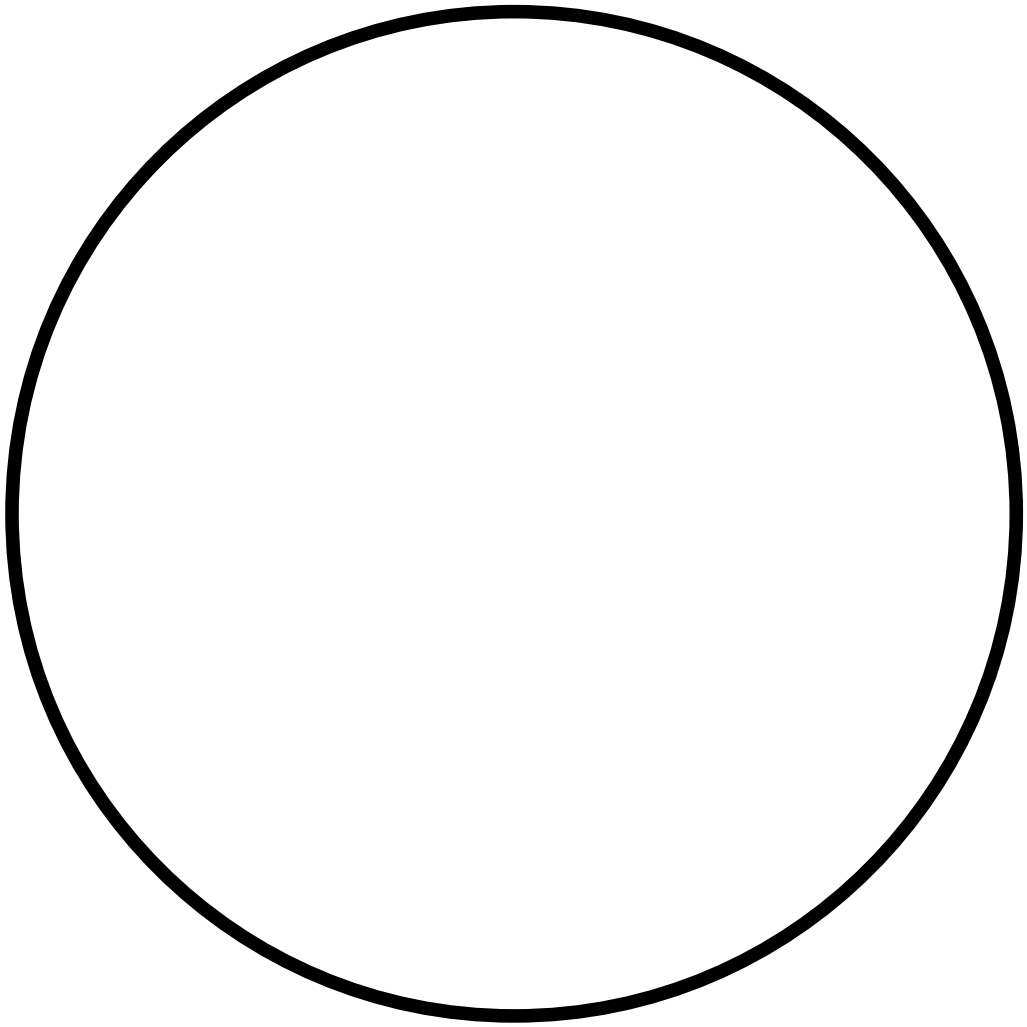
Object	Material
Cylinder 	
Triangle 	
Tube 	
Cloth 	
Stick 	
Wire 	
Screw 	

Properties of Solid Objects

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

Object Grouping

Can two or more objects have the same property?



These objects share the property of

_____.

Towers

What objects are useful for building towers?

Good tower materials have these properties.

_____ _____

My tower is made of _____ .

Outdoor Solids

Are there solid objects outdoors?

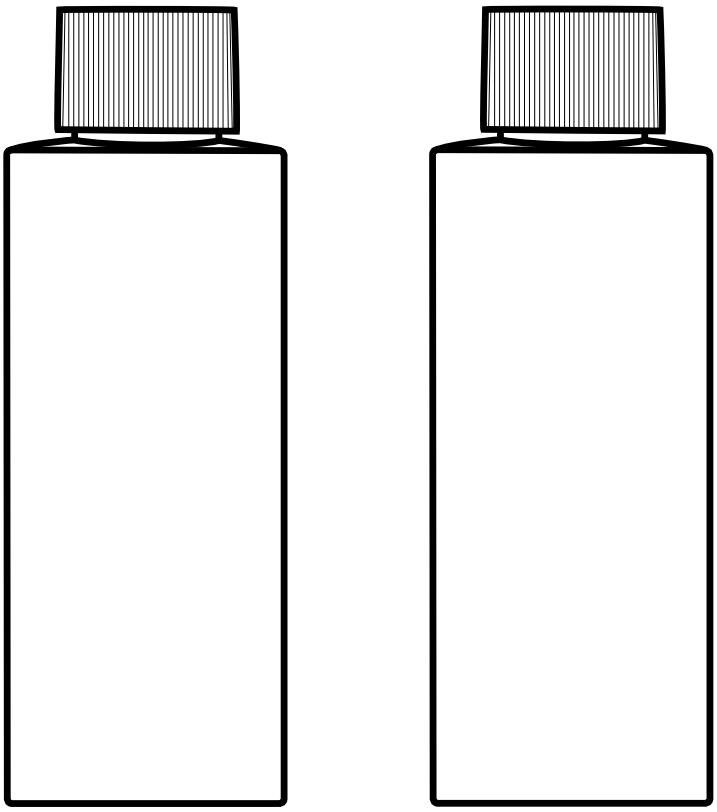
Object / **Property**	Twig	Paper			
Smooth					
Rough					
Flat					

Liquid Exploration

How are liquids different from each other?

Some liquids are _____ , but

other liquids are _____ .



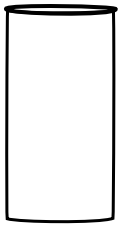
Liquid Properties

How can liquids be described?

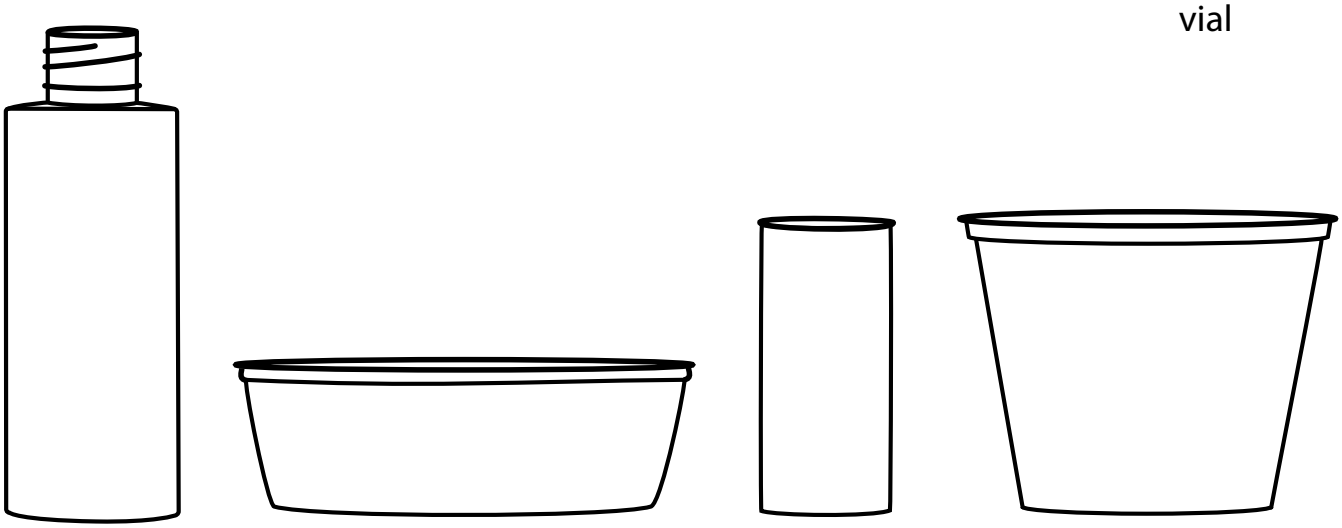
Object / **Property**	Water	Hand soap	Oil	Corn syrup	Water with color	Dish soap	Starch
Transparent							
Translucent							
Has color							
Viscous							
Bubbly							
Foamy							

Liquids in Containers

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

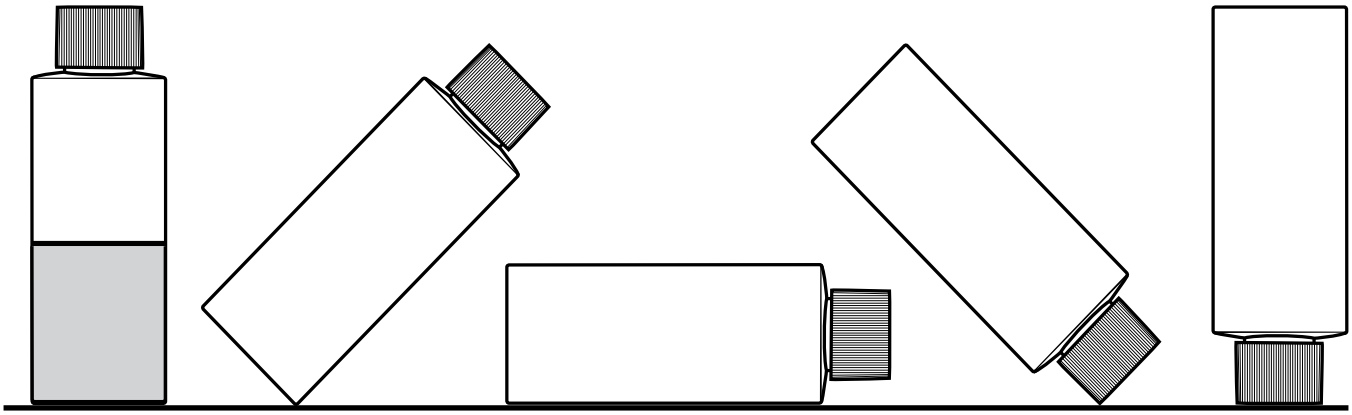


Small vial



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.

Falling-Bottle Puzzle

How do liquids change in containers?

Liquids always go to the _____ of the container.

The surface of liquids in containers is always _____.

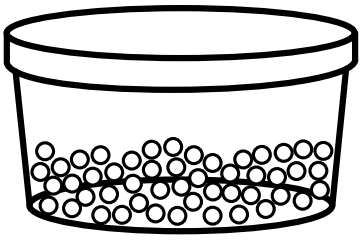
Soup Mix

How can mixtures of particles
be separated?

Mixtures of particles can be separated
with _____ .

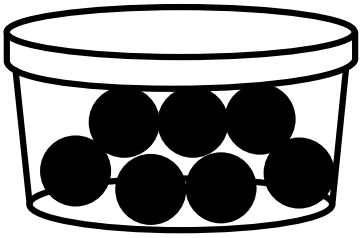
Bead Mix A

Which screens can separate beads?



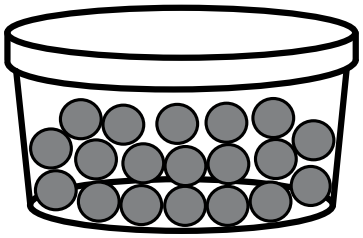
Which screens can these beads go through?

_____



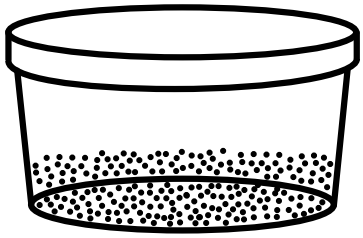
Which screens can these beads go through?

_____



Which screens can these beads go through?

_____

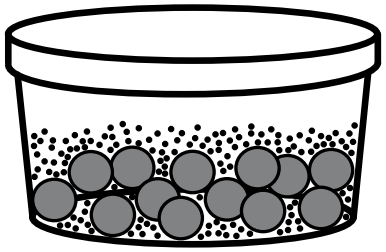


Which screens can these beads go through?

_____

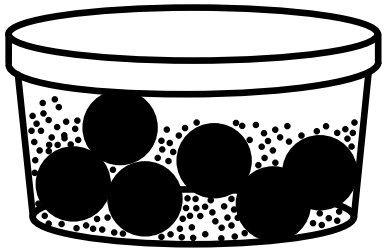
Bead Mix B

Which screens can separate beads?



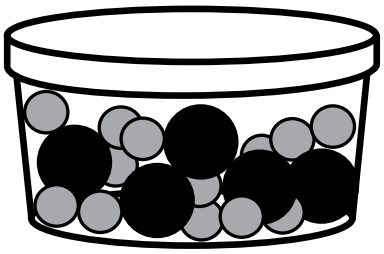
Which screens can separate this mixture?

_____



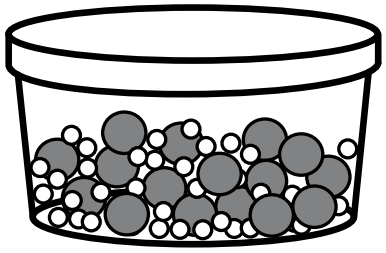
Which screens can separate this mixture?

_____



Which screens can separate this mixture?

_____



Which screens can separate this mixture?

_____

Particles Outdoors

Are there little pieces of solid material outdoors?

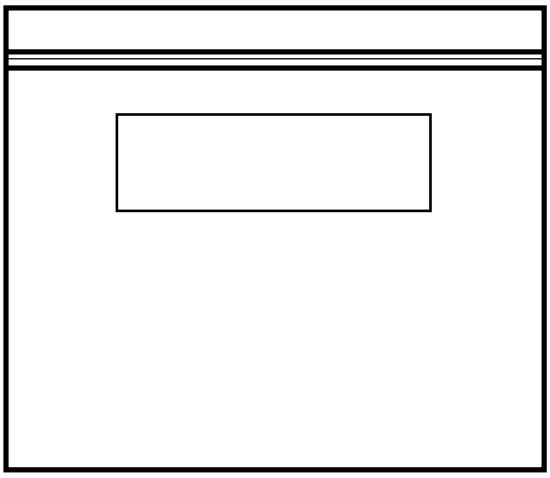
We found _____ outdoors.

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

Water	Particles

Solid Materials in Water A

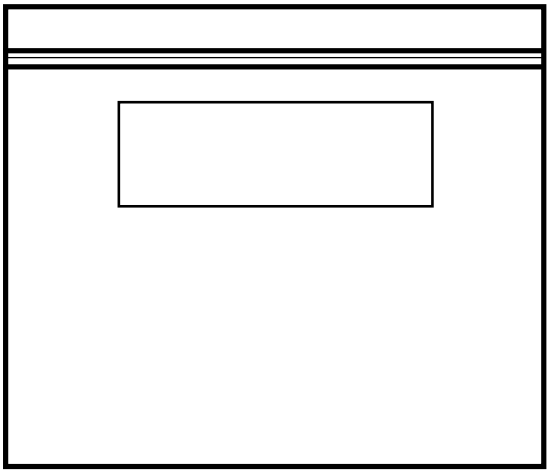
What happens when solids are mixed with water?



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

_____

_____.



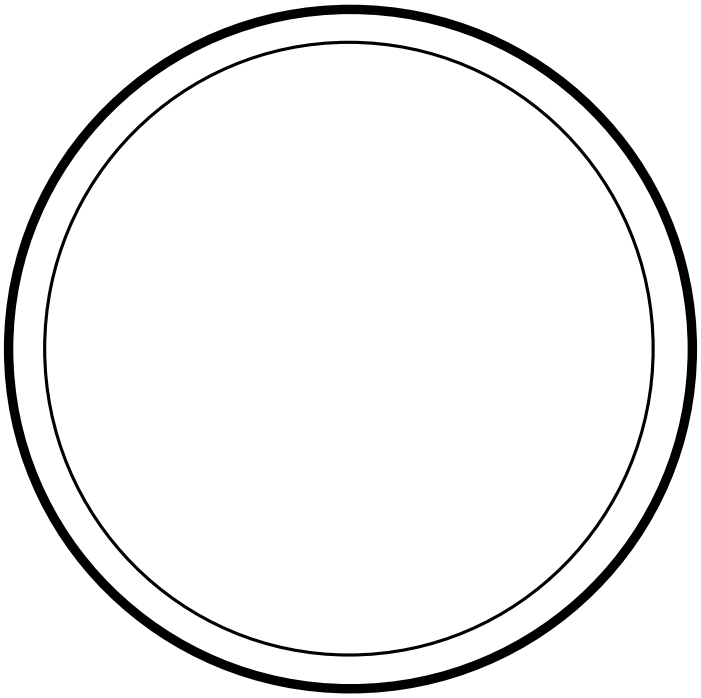
2. After a night in water, the solid looked

_____

_____.

Solid Materials in Water B

Record what your dry solid looks like.



3. Then the water evaporated.
   The solid looked

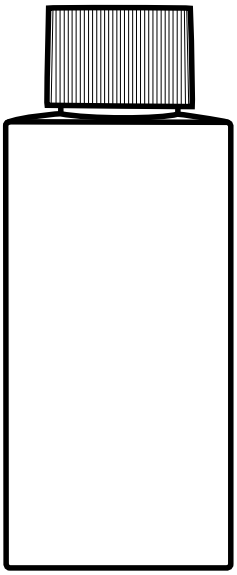
_____

_____

_____ .

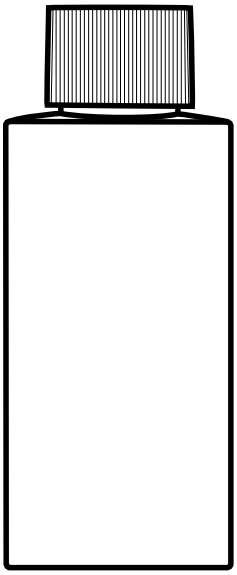
Liquid with Water

What happens when _____ is mixed with water?



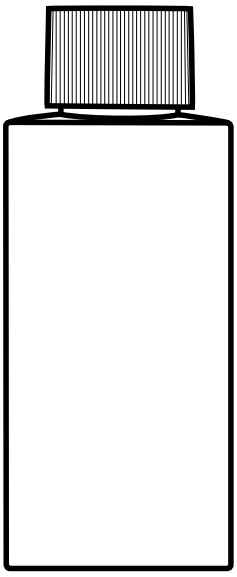
1. Add water. How does it look?

_____



2. Shake it. How does it look?

_____

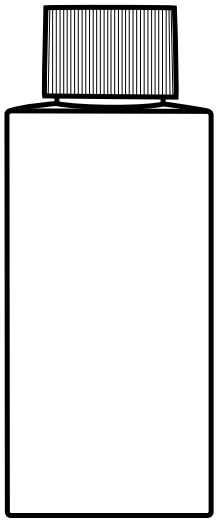


3. How does it look the next day?

_____

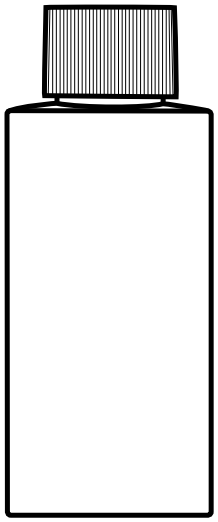
Investigating Toothpaste

Is toothpaste solid or liquid?



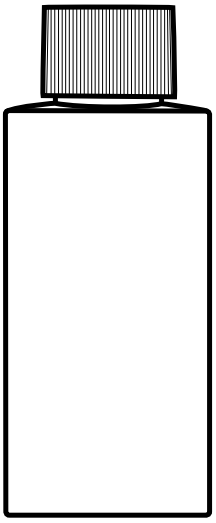
1. Add water. How does the toothpaste look?

_____



2. Shake it. How does the toothpaste look?

_____



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

_____

Changing Properties

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

When a solid changes to a liquid,
we say it _____.

When a liquid changes to a solid,
we say it _____.

To change a solid to a liquid,
you make it _____.

To change a liquid to a solid,
you make it _____.