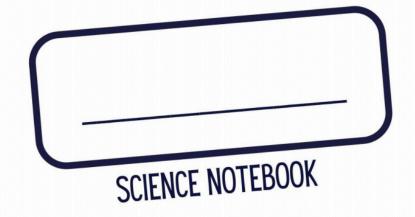




2ND GRADE

COPYRIGHT JORDAN SCHOOL DISTRICT LISE WITH PERMISSION ONLY





2ND GRADE

COPYRIGHT JORDAN SCHOOL DISTRICT USE WITH PERMISSION ONLY

Focus Question	Focus Question
How can solid objects be described?	How can solid objects be described?

## **Object Materials**

What are solid objects made of?

Object	Material
Cylinder	
Triangle	
$\triangle$	
Tube	
Cloth	
Stick	
Wire	
$\sim$	
Screw	
JETEW J	

## **Object Materials**

What are solid objects made of?

Object	Material
Cylinder	
Triangle	
$\triangle$	
Tube	
Cloth	
Stick	
Wire	
Screw	
Jefe W	

## Cylinder Triangle **Properties of Solid Objects** Tube Cloth Stick

Flexible

Rigid

Soft

Pointy

Property

Object

Round

5	
Cylinder	
Triangle	Proper
Tube	ties of So
Cloth	roperties of Solid Objects
Stick	ects
Wire /	

Object	<b>Object</b> Cylinder Triangle	Triangle	Tube	Cloth	Stick	Wire <sub>f</sub>	Screw
Property	0					2	
Round							
Pointy							
Flexible							
Rigid							
Soft							
Hard							
Transparent							

Transparent

Hard

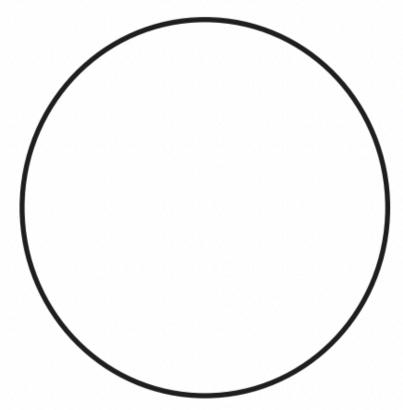
Screw

Wire

Focus Question	Focus Question
What are solid objects made of?	What are solid objects made of?

## **Object Grouping**

Can two or more objects have the same property?

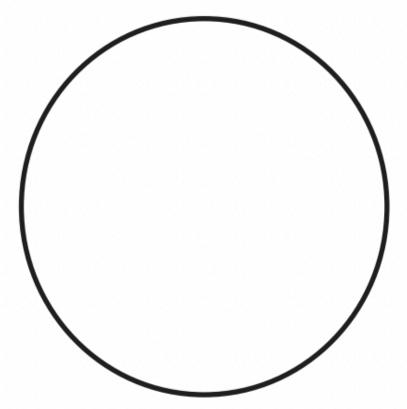


These objects share the property of

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

Focus Question	Focus Question
1 ocus Question	1 ocus Question
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?

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.

Focus Question	Focus Question
What are the properties of successful towers?	What are the properties of successful towers?

## **Outdoor Solids**

What solid objects are outdoors?

Object	Twig	Paper		
Property				
Smooth				
Rough				
Flat				

## **Outdoor Solids**

What solid objects are outdoors?

Paper						
Twig						
Object	Property	Smooth	Rough	Flat		

FOSS Next Generation
© The Regents of the University of California
Can be duplicated for classroom or workshop use.

Solids and Liquids Module Investigation 1: Solids No. 5—Notebook Master FOSS Next Generation

The Regents of the University of California

Can be duplicated for classroom or workshop use.

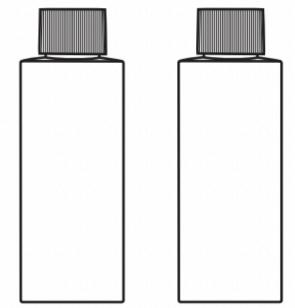
Solids and Liquids Module Investigation 1: Solids No. 5—Notebook Master

Focus Question	Focus Question
What solid objects are outdoors?	What solid objects are outdoors?

## **Liquid Exploration**

How are liquids different from each other?

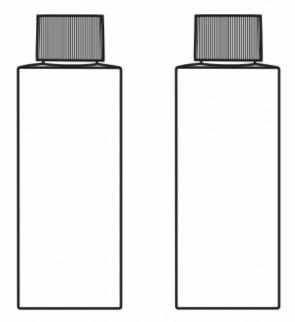
Some liquids are \_\_\_\_\_\_, but other liquids are \_\_\_\_\_\_.



## **Liquid Exploration**

How are liquids different from each other?

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



Focus Question	Focus Question
How are liquids different from each other?	How are liquids different from each other?

**Liquid Properties** 

## How can liquids be described?

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

## **Liquid Properties**

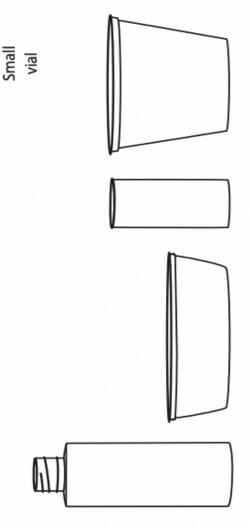
## How can liquids be described?

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

Focus Question	Focus Question
How can liquids be described?	How can liquids be described?

## **Liquids in Containers**

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

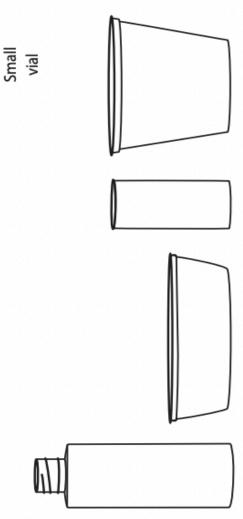


No. 8-Notebook Master

Solids and Liquids Module

lnvestigation 2: Liquids

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

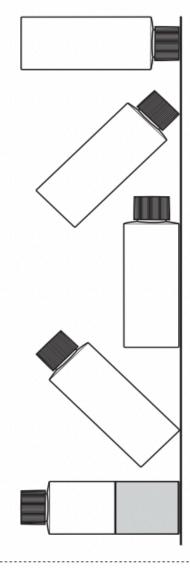


**Liquids in Containers** 

No. 8-Notebook Master lnvestigation 2: Li quids Solids and Liquids Module

## **Liquid Level in a Bottle**

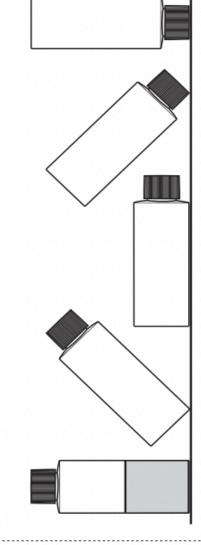
How does the liquid change when the bottle tips?



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.

Focus Question	Focus Question
How do liquids change in containers?	How do liquids change in containers?

Solids and Liquids Module	FOSS Wext Generation	Solids and Liquids Module Investigation 2: Liquids No. 1 Ondestigation No. 1 Ondestigation	FOSS Next Generation
Investigation 2: Liquids	© The Regents of the University of California		of The Regents of the University of Californ ia
No. 10—Motebook Master	Can be duplicated for classroom or workshop use.		Can be duplicated for classroom or workshop use.
Falling-Bottle Puzzle  How do liquids change in containers?	When liquids are in containers, the liquids	<b>Falling-Bottle Puzzle</b> How do liquids change in containers?	When liquids are in containers, the liquids

Focus Question	Focus Question
Where are liquids outdoors?	Where are liquids outdoors?

Focus Question	Focus Question
Are these materials solid or liquid?	Are these materials solid or liquid?

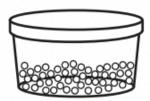
Focus Question	Focus Question
How can mixtures of particles be separated?	How can mixtures of particles be separated?

Soup Mix	Soup Mix
How can mixtures of particles be separated?	How can mixtures of particles be separated?
Mixtures of particles can be separated by	Mixtures of particles can be separated by

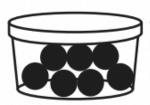
Focus Question	Focus Question
How particles of solids move in bottles?	How particles of solids move in bottles?

## **Bead Mix A**

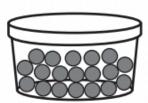
Which screens can separate beads?



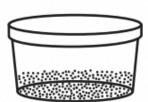
Which screens can these beads go through?



Which screens can these beads go through?



Which screens can these beads go through?



Which screens can these beads go through?

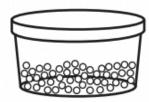
FOSS Next Generation

The Regents of the University of California
Can be duplicated for classroom or workshop use.

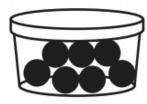
Solids and Liquids Module Investigation 3: Bits and Pieces No. 12—Notebook Master

## **Bead Mix A**

Which screens can separate beads?



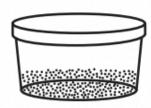
Which screens can these beads go through?



Which screens can these beads go through?



Which screens can these beads go through?



Which screens can these beads go through?

FOSS Next Generation

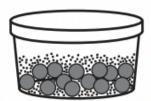
The Regents of the University of California

Can be duplicated for classroom or workshop use.

Investigation 3: Bits and Pieces Solids and Liquids Module No. 12—Notebook Master

## **Bead Mix B**

Which screens can separate beads?



Which screens can separate this mixture?



Which screens can separate this mixture?



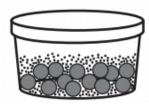
Which screens can separate this mixture?



Which screens can separate this mixture?



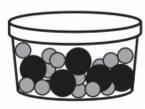
Which screens can separate beads?



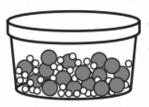
Which screens can separate this mixture?



Which screens can separate this mixture?



Which screens can separate this mixture?



Which screens can separate this mixture?

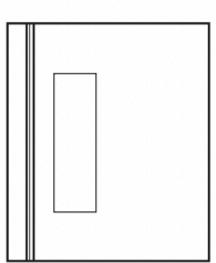
Focus Question	Focus Question
What is a general rule for using screens to separate a mixture of small objects?	What is a general rule for using screens to separate a mixture of small objects?

Particles Ou	tdoors		Particles Ou	tdoors	
Are there little pieces of solid material outdoors?			Are there little pieces of solid material outdoors?		
We found o	outdoors.	We f	oundc	outdoors.	
We poured and v This is what we saw.	vater on the ground.		ooured and v is what we saw.	vater on the ground.	
Water	Particles		Water	Particles	

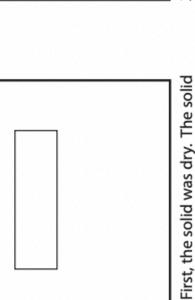
Focus Question	Focus Question
Are there little pieces of solid material outdoors?	Are there little pieces of solid material outdoors?

# Solid Materials in Water A

What happens when solids are mixed with water?



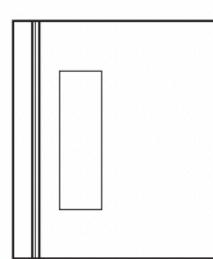
After a night in water, the



solid looked



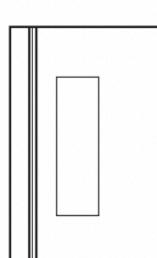
What happens when solids are mixed with water?



After a night in water, the solid looked

The solid

First, the solid was dry.



FOSS Next Generation O The Regents of the University of California Can be duplicated for classroom or workshop use.

So lids and Liquids Module Investigation 4: Solids, Liquids, and Water No. 15-Notebook Master

looked

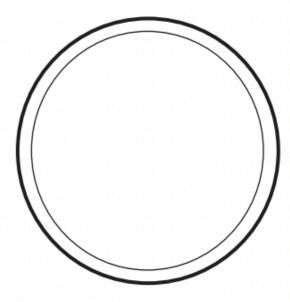
FOSS Next Generation © The Regents of the University of California Can be duplicated for classroom or workshop use.

Solids and Liquids Module Investigation 4: Solids, Liquids, and Water No. 15-Notebook Master

looked

## Solid Materials in Water B

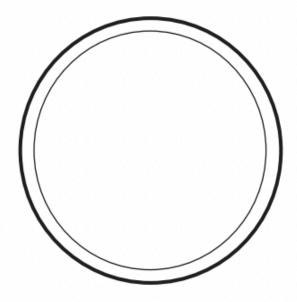
Record what your dry solid looks like.



3. Then the water evaporated. The solid looked

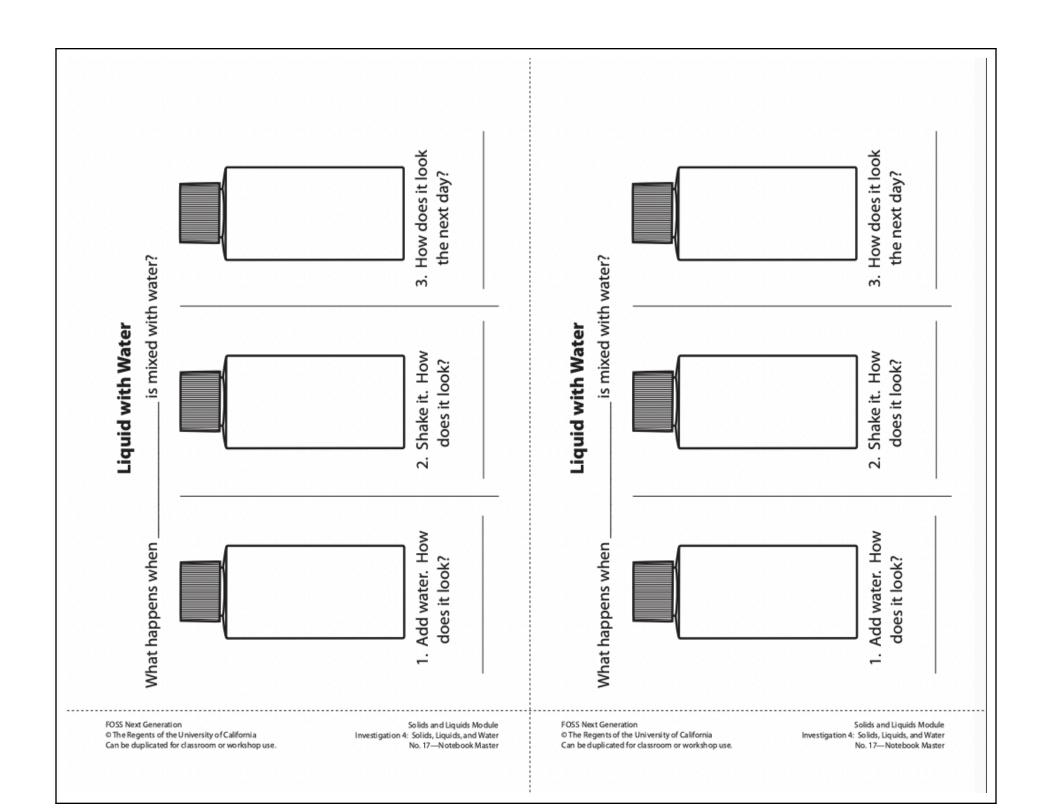
## Solid Materials in Water B

Record what your dry solid looks like.



3. Then the water evaporated. The solid looked

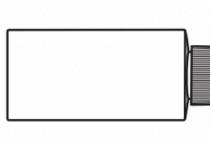
Focus Question	Focus Question
What happens when solids are mixed with water?	What happens when solids are mixed with water?



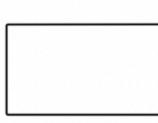
Focus Question	Focus Question
What happens when liquids are mixed with water?	What happens when liquids are mixed with water?

# Investigating Toothpaste

Is toothpaste solid or liquid?



look? does the toothpaste Add water. How



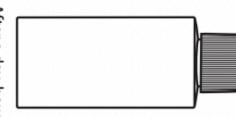
look? Shake it. the toothpaste How does

2



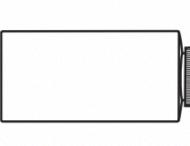
look? does the toothpaste After a day, how

ω



**Investigating Toothpaste** 

Is toothpaste solid or liquid?



look? Add water. How does the toothpaste

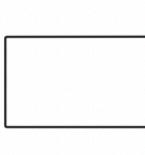
2

Shake it.

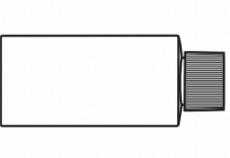
How does

look?

the toothpaste



ω look? does the toothpaste After a day, how



Focus Question	Focus Question
Is toothpaste solid or liquid?	Is toothpaste solid or liquid?

## **Changing Properties**

## **Changing Properties**

How do properties of materia change when they are heated		How do properties of mate change when they are hea	
When it getsa liquid.	, a solid changes to	When it gets a liquid.	, a solid changes to
We say the solid	•	We say the solid	•
When it getsa solid.	, a liquid changes to	When it gets a solid.	, a liquid changes to
We say the liquid		We say the liquid	

<u>r</u>	<del>,</del>
Focus Question	Focus Question
How do properties of materials change when they are heated or cooled?	How do properties of materials change when they are heated or cooled?

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