

## Lesson 1: Earth, The Water Planet

### Salty or Not?

How much water? \_\_\_\_\_

How much salt? \_\_\_\_\_

How does it taste? \_\_\_\_\_

How much water? \_\_\_\_\_

How much salt? \_\_\_\_\_

How does it taste? \_\_\_\_\_

## Map of the World



## How Many Squares?

Land \_\_\_\_\_

Ocean \_\_\_\_\_

Ice and Fresh Water \_\_\_\_\_

1. What is most of the Earth's surface covered with? \_\_\_\_\_
2. What type of water is there most of on Earth? \_\_\_\_\_
3. How much more saltwater than fresh water is there on Earth? \_\_\_\_\_

## Lesson 2: Water's Ways

### Designing My System

What parts did you use? \_\_\_\_\_

\_\_\_\_\_

Draw it in the box.



Predict what will happen. When you are done, write what you observe:

I thinkō

I seeō

Go outside and look carefully, how is your plan like water found outside? \_\_\_\_\_

\_\_\_\_\_

## Lesson 3: That's the Ticket!

### Water Supply To Be Stopped?

News flash! News flash! The main pipe bringing water to a local elementary school is broken. Soon it will not bring water to the school anymore.

Luckily, students and teachers at this school will not miss having water. A second grader there said, "We never use water much at school." One of the second grade teachers agreed. "Water is something we don't use in everyday life. So having no water will not bother us at all."

Officials at the school are thinking about this problem. They have asked a second grade class to help them decide what to do. Should they fix the pipe and keep water flowing to the school? Or should they bring in bottled water for just three kinds of water use? Bringing in water is cheaper than fixing the pipe. The class must decide tomorrow.

## Do We Need Water?

Kind of Water Use \_\_\_\_\_

How could we do this with no water? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

What would happen if we did not do this at all? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

What are the three most important uses of water? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



## Lesson 4: Water Town

<b>Real Object</b>	<b>Model</b>
Gallon of water	Cup of water
Earth	Globe
Car	

## Animals

<b>Water Use</b>	<b>Units of Water</b>
Drinking	2



## Pioneer Family

<b>Water Use</b>	<b>Units of Water</b>
Outhouse	0
Washing Faces	1
Washing Dishes	2
Drinking and Cooking	3
Washing Clothes	5
<b>Total Water Use</b>	

## Modern Family

<b>Water Use</b>	<b>Units of Water</b>
Flushing Toilet	7
Washing Faces	20
Washing Dishes	30
Drinking and Cooking	6
Washing Clothes	60
<b>Total Water Use</b>	

## Lesson 5: Special Delivery

Where does the water at our school come from? \_\_\_\_\_

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How does the water get to our school? \_\_\_\_\_

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### Group Task

Build a model that shows how you can:

1. Get water from under the ground.
2. Move water up to a water tower above the ground.
3. Make water move down from the water tower through a pipe to a building.

*Rules: Do not taste or put your mouth on anything. Groundwater cup must stay in the pan on the desk.*

## Lesson 6: Clever Clean Up

*Since there are chemicals being used in this lesson, wear your safety goggles all the time.*

### Task 1 - Settling

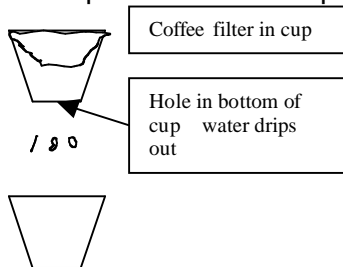
1. Let your cup sit still for five minutes.
2. Pour liquid off the top into a clear cup.

### Task 2 – Add a Chemical

1. Get  $\frac{1}{2}$  teaspoon of alum from the teacher.
2. Add it to your cup.
3. Stir with the stirrer.
4. Wash your hands.
5. Wait for five minutes.

### Task 3 - Filtering

1. Set the cups to look like the picture.



2. Pour the cup into the filter.
3. Catch the liquid in a clear cup.

## Lesson 7: Watching Water

Task: _____	Number of Cupfuls of Water Used
<b>Water on all the time</b>	
<b>Different way</b>	
<b>Different way</b>	