

ES – Activity #12

Incredible Journey

Adapted from Project Wet Curriculum and Activity Guide



QUESTION: How does a water molecule move through the water cycle?

MATERIALS:

colored pencils
dice

Water Cycle diagram
Water Cycle table

PROCEDURE:

1. Roll the dice to determine where your first water molecule will begin its journey through the cycle. Record your starting place in the Data Table.

2 - animal	9 - river
3 - ground water	10 - glacier
4 - lake	11 - soil
5,6 - clouds	12 - plant
7,8 - ocean	
2. Roll one of the dice (Roll #1). Use the Water Cycle table to determine where the water molecule will move next. Record where the water molecule moves in the Data table.
3. On the Water Cycle diagram, use one of your colored pencils to draw a line that shows where the molecule moves.
4. Repeat steps 2 and 3 nineteen (19) more times, or until your water molecule reaches the ocean.
5. Repeat steps 1-3 with 2 more water molecules.

QUESTIONS:

1. What two main processes move water molecules through the water cycle?
2. As water molecules move from place to place through the water cycle, they usually travel in pairs or groups. Where do they travel singly?
3. Where in the water cycle could you find water as a . . .
 - a. gas?
 - b. liquid?
 - c. solid?
4. Where did your water molecules spend the most time?
5. Where did your water molecules spend the least time?

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DATA TABLE:

	Molecule 1	Molecule 2	Molecule 3
Roll #1			
Roll #2			
Roll #3			
Roll #4			
Roll #5			
Roll #6			
Roll #7			
Roll #8			
Roll #9			
Roll #10			
Roll #11			
Roll #12			
Roll #13			
Roll #14			
Roll #15			
Roll #16			
Roll #17			
Roll #18			
Roll #19			
Roll #20			

Water Cycle Diagram

CLOUDS

OCEAN

RIVERS

LAKES

PLANTS

SOIL

ANIMALS

GLACIERS

GROUNDWATER

Water Cycle Table

STATION	DIE #	MOVE TO . . .
Soil	1	Plants
	2	River
	3	Ground water
	4,5	Clouds
	6	Stay in soil
Plant	1,2,3	Clouds
	4	Animal
	5,6	Stay in plant
River	1	Lake
	2	Ground water
	3	Ocean
	4	Animal
	5	Clouds
	6	Stay in river
Clouds	1	Soil
	2	Glacier
	3	Lake
	4,5	Ocean
	6	Stay in cloud

Water Cycle Table (Cont.)

STATION	DIE #	MOVE TO . . .
Ocean	1,2	Clouds
	3,4,5,6	Stay in ocean
Lake	1	Ground water
	2	Animal
	3	River
	4	Clouds
	5,6	Stay in lake
Animal	1,2	Soil
	3,4,5	Clouds
	6	Stay in animal
Ground Water	1	River
	2,3	Lake
	4,5,6	Stay in ground water
Glacier	1	Ground water
	2	Clouds
	3	River
	4,5,6	Stay in glacier