

THE WATERSHED HARMONY GAME

Instructions



You Will Need:

Game Pieces

WATERSHED HARMONY Game Board Top and Bottom (see below)

12 WATERSHED HARMONY Game Cards

Coin to flip for moving Game Pieces on Game Board

Object:

To answer questions correctly and become the first player to enter the finish space earning the Water Quality Steward badge.

Instructions:

Attach game board top and bottom and color it with crayons.

Color and cut out game pieces, place on start box.

Place the Water Quality Steward badge in the finish space.

Cut out game cards. Stack face down beside the game board.

Flip the coin to determine who moves first. (Heads moves first.)

Flip the coin to move: Heads - 1 space, Tails - 2 spaces.

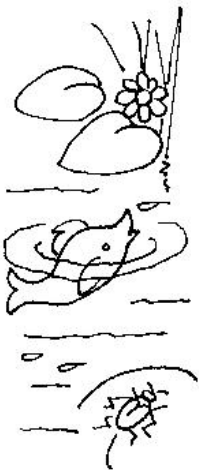
When a player lands on a "Draw" space, he should pick up a card from the stack and pass it to another player without looking at the questions.

The second player reads the question and three possible answers to the first player. If the first player chooses the correct answer (in bold), he is allowed to stay on the new space. If his answer is incorrect he must return to the space he occupied before flipping the coin. The second player places the card face down at the bottom of the stack and flips the coin to begin his turn. The play continues until finally a player moves into the finish box earning the Water Quality Steward badge, ending the game.

When a player lands on a river space, the player should flow with the river and slide ahead 1 space.

When a player lands on a "Polluted Runoff" space, he should move back 1 space because polluted runoff has entered the river and he must lose a turn to help clean it up.

You may want to create a smart board program using this information



This activity page was provided by special permission from The Mississippi Department of Environmental Quality.

To learn more about the Watershed Harmony Environmental Puppet Theater or Study Guide, please visit

www.bayoutown.com.

WATERSHED HARMONY GAME CARDS & MARKERS - 1



Bobby Bass



Molly Mockingbird



Blue Gill

A _____ is an impurity that causes an undesirable change in the water. _____ are the main source of water pollution.

- | | |
|----------------------|----------------------------|
| A.) Pollutant | A.) Fish |
| B.) Molecule | B.) Atmospheric conditions |
| C.) Watershed | C.) Humans |

Don't cut _____ or _____ along stream banks. Plant hardy trees, shrubs, and plants requiring little _____.

- | | |
|----------------------------|-------------------------------|
| A.) Bark or grass | A.) Watering. |
| B.) Shrubs or trees | B.) Pesticide and fertilizer. |
| C.) Worms or bait | C.) All of the above. |

Name the 3 parts of the water molecule. What is a watershed?

- | | |
|--|--|
| 2 parts hydrogen and 1 part oxygen, (H₂O), or hydrogen, hydrogen, and oxygen | A.) A small shed where a water well is kept. |
| | B.) All the land area that drains to a common point one stream or another water body. |
| | C.) A waterfall. |

To _____ means to separate pollutants from water. Wash cars on the _____ using a minimum of _____.

- | | |
|-------------------|-----------------------------|
| A.) Absorb | A.) Cement, cloth |
| B.) Precipitate | B.) Grass, chemicals |
| C.) Filter | C.) Street, water |

_____ has the ability to dissolve harmful pollutants. Less than _____% of water is drinkable.

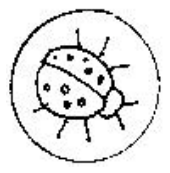
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|------------------|---------------|
| A.) An aquifer | A.) 97% |
| B.) Water | B.) 50% |
| C.) A BMP | C.) 1% |

An aquifer is _____. Water molecules stick together because of a property called _____.

- | | |
|---|---------------------|
| A.) A fish tank. | A.) Adhesion |
| B.) Natural underground layers holding large amounts of water. | B.) Precipitation |
| C.) Hydration | C.) Cohesion |

WATERSHED HARMONY GAME CARDS & MARKERS - 2

Lady Bug



Water Quality Steward Badge



Frog



A buffer zone is:

- A.) **Vegetation (plants & trees) that help to filter polluted runoff and prevent erosion.**
- B.) A construction site.
- C.) A pond to catch and filter polluted water.

To percolate means:

- A.) Form of precipitation.
- B.) **Clean and filter water through layers of sand and gravel.**
- C.) Measure layers of soil.

Name three kinds of polluted runoff.

road salt; mining; erosion; car fluids; animal waste; fertilizer; pesticides; detergent; septic leakage; industry waste; toxic chemicals; land fill; construction; litter

Name 3 parts of the water cycle.

evaporation, condensation, precipitation transpiration overland flow infiltration

_____ is the attraction of water for other substances such as glass and plastic at the molecule level.

- A.) Cohesion
- B.) Surface Tension
- C.) **Adhesion**

_____ is a skin on top of water that allows light weight objects to float on water.

- A.) **Surface Tension**
- B.) Cohesion
- C.) Adhesion

EMERGENCY ACTION: What Would You Do If...

Mrs. Hope and her students went on a field trip to the Clear Bottom River. They found Bobby Bass' river pool polluted and want to help. What is the *first* thing they should do?

- A.) Begin cleaning it up.
- B.) Leave the area.
- C.) **Report the problem to the proper authorities.**

Mrs. Hope's students made an inspection of the grounds and found that the school's storm drains were clogged with soil from the new construction. The concerned citizens should:

- A.) Report the problem to the construction manager in charge.
- B.) Shovel out the soil.
- C.) **All of the above.**

EMERGENCY ACTION: What Would You Do If...

A manufacturing plant was being built along the bank of the Clear Bottom River. After the land was cleared to begin construction, a storm caused the loose soil to wash down the hill. What should you do?

- A.) Plant trees.
- B.) **Install a silt fence.**
- C.) Move the plant.

You have just moved to River Town and bought one of Mr. Daniel's home sites. Your site hasn't any trees or grass. How should you protect your soil from washing away during construction?

- A.) Plant flowers.
- B.) Plant trees.
- C.) **Install a silt fence around the property**

A _____ is a volunteer citizen who helps to keep the water in their community pure and clean.

- A.) **Water Quality Steward**
- B.) Mayor
- C.) Teacher

Never dump pollutants on the _____ or in the _____.

- A.) land, water
- B.) land, storm drain
- C.) **All of the above.**

