

# WATER

# JEOPARDY GAME



## YOUTH BOTTLING-OUT & TAPPING-INTO PUBLIC WATER SYSTEMS



The 'Water Jeopardy' game is an interactive and engaging educational tool to recap information discussed in the *Re-Fresh!* presentation. The *Re-Fresh!* 'Water Jeopardy' game is designed very similarly to the popular game series, with questions and answers reversed! Questions are divided into four main categories: *Where does water come from?*; *The Bottled Water Industry*; *Life Cycle of Plastic Bottles* and *Health and Environmental Issues*. Each category has five questions that are categorized by \$100-\$500 prize levels.

### Sample Jeopardy game template.

Where does water come from?	The Bottled Water Industry	Life Cycle of Plastic Bottles	Health and Environmental Issues
100	100	100	100
200	200	200	200
300	300	300	300
400	400	400	400
500	500	500	500

### Instructions:

- Participants form two or more teams. There will also need to be one player as the host and score keeper.
- Teams can draw to decide who picks the first game category (e.g., “rock, paper, scissors”, flipping a coin). The host will read out the question corresponding to the chosen category and prize level. The group that responds first earns the prize point of the level chosen. This can be done with the aid of home-made buzzers or through various other methods (e.g., first group to raise hand).

The game will continue until all the questions have been chosen. The team with the most points at the end “wins.”

## **WHERE DOES TAP WATER COME FROM?**

**\$100**

Name one stage in treating municipal water.

Answer: Any of the following → Filtration, Disinfection, and Testing

**\$200**

Drinking water comes from surface and ground water sources. What is a surface source of drinking water?

Answer: Lakes, rivers etc. Ground water sources are aquifers, which are underground geological formations.

**\$300**

How much of the world's total water supply is freshwater (i.e.: available for consumption)?

Answer: Of the world's water supply, 97% is within the Oceans, 2% is frozen in ice caps and glaciers and only 1% is available to meet drinking water needs for people, plants and animals.

**\$400**

Name one factor that is impacting the health of watersheds?

Answer: urbanization/development, industrial pollution, dams, wastewater runoff, overuse, agriculture etc.

**\$500**

Approximately 70% of the world's freshwater supply is used for irrigation purposes. How much is used for domestic purposes and what percentage is used for Industry?

Answer: Only 8% is used for household use, and 22% is used for Industry.



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## **THE BOTTLED WATER INDUSTRY**

### **\$100**

Name one of the Big Four bottled water corporations.

Answer: Any one from → Coca-Cola, PepsiCo., Nestlé, and Danone

### **\$200**

Which companies take the water to produce their products directly from municipal water supplies?

Answer: Coca-Cola (produces Dasani brand) and PepsiCo (Aquafina). Nestlé and Danone take water from surface or groundwater sources.

### **\$300**

What is greenwashing?

Answer: Greenwashing is a marketing tactic where companies spin their products and policies as environmentally friendly. For example, bottled water companies claim that their products can simply be recycled, instead of reducing the amount of plastic being produced.

### **\$400**

Bottled water is how many more times expensive than tap water?

Answer: The least expensive bottled water compared to the most expensive tap water is approximately 240 times more expensive.

The most expensive bottled water compared to the least expensive tap water is approximately 10,000 times more expensive than the tap water.

### **\$500**

What marketing tactics do PepsiCo. and Coca-Cola use in schools?

Answer: Exclusivity contracts. These bind institutions, such as high schools and universities, into exclusively selling the company's product in exchange for funding and/or other resources



## **LIFE CYCLE OF PLASTIC BOTTLES**

**\$100**

What are the three stages in the life-cycle of a plastic bottle?

Answer:

- 1) Production
- 2) Transportation
- 3) Disposal

**\$200**

How energy intensive is bottled water to tap water? Is it....

- a) 10 times more energy intensive than tap water
- b) 2000 times
- c) 200 times

Answer: b) 2000 times

**\$300**

Coca-Cola charges you anywhere from 1.75-3.00 dollars for a litre of reprocessed tap water. If you took that \$1.75 to Brampton Municipality for water, how many litres could you purchase?

- a) 340 litres
- b) 3400 litres
- c) 34, 000 litres

Answer: c) 34, 000 litres

**\$400**

How many litres of water does it take to produce 1 litre of bottled water?

Answer: It takes 3L of water to produce 1litre of bottled water.

**\$500**

In a recent study, 65% of plastic bottles in Ontario are burnt or end up in landfills? What implications does this have on the surrounding environment?

Answer: Chemical leaching into ground water, water pollutants, etc.



## **HEALTH AND ENVIRONMENTAL ISSUES**

**\$100**

What chemical concentrations have independent scientific studies found in bottled water?

- a) Arsenic
- b) Mercury
- c) E. coli
- d) All of the above
- e) None of the above

Answer: d) All of the above

**\$200**

Are there green solutions to bottled water, such as Boxed water or Glass bottled water?

Answer: No, there are no green solutions. 'Boxed water' or glass bottled water does not address watershed depletion and pollution associated with transportation, for instance. It also does not address other important issues such as equal access to water.

**\$300**

According to a recent report, how many bottling plants have been inspected in the last 12 months?

Answer: Out of the 282 bottling plants in Canada only 16 were inspected over the last 12 months which only counts for 6%.

**\$400**

***Double Jeopardy question: Discuss the concept of water as a human right?***

The double jeopardy question is meant simply as a time for the groups to breakout into discussion. There is no wrong our right answer to this question. Groups will have a designate time to discuss their thoughts and ideas (5-15 minutes) and then they will present their ideas to the group. The host can probe group discussion in various ways. See the following for some ideas:

- What is a human right? Is air a human right? What if we allow people to privatize air?
- Should humans have total control over a resource that the ecosystem needs for survival? Is water rather a "global" right?
- What happens when water is privatized? Who suffers from water privatization?

**\$500**

Under what piece of legislation is tap water governed in Canada?

Answer: Canada's Drinking Water Guidelines



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