

## Introduction to Water Pollution

Read the following introduction and answer the questions that follow:

Water pollution is a major environmental issue that affects not only the environment but also human health. This worksheet is designed to help 14-year-old students understand the primary sources of water pollution, its effects on human health and aquatic ecosystems, and potential solutions for prevention and mitigation.

## Multiple Choice Questions

Choose the correct answer for each question:

1. What is the main cause of water pollution?
  - a. Industrial waste
  - b. Agricultural fertilizers
  - c. Urban sewage
  - d. All of the above

2. What is the effect of water pollution on human health?
  - a. Respiratory problems
  - b. Skin irritation
  - c. Cancer
  - d. All of the above

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3. What is the impact of plastic pollution on marine life?
  - a. Entanglement
  - b. Suffocation
  - c. Poisoning
  - d. All of the above



## Short Answer Questions

*Answer the following questions in complete sentences:*

1. What are the primary sources of water pollution? Explain each source briefly.

2. How does water pollution affect aquatic ecosystems? Provide an example.

## Essay Questions

*Answer the following questions in essay form:*

1. What are the effects of water pollution on human health? Explain with examples.

2. What are some potential solutions to address water pollution? Explain each solution briefly.

## Activities

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*Complete the following activities:*

1. Design a poster to raise awareness about water pollution. Include the primary sources of water pollution, its effects on human health and aquatic ecosystems, and potential solutions for prevention and mitigation.

[Space for poster design]

2. Write a short story about a character who is affected by water pollution. How does the character's life change as a result of water pollution?

3. Create a public service announcement to educate others about the importance of water conservation and the prevention of water pollution.

## Case Study

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*Read the following case study and answer the questions that follow:*

The city of Mumbai, India, is facing a major water pollution crisis due to the release of industrial waste and urban sewage into its water sources. The city's water treatment plants are unable to cope with the amount of waste, resulting in the contamination of drinking water sources and the harm of aquatic ecosystems.

1. What are the primary sources of water pollution in Mumbai?

2. How does water pollution affect the health of the people living in Mumbai?

3. What are some potential solutions to address water pollution in Mumbai?

## Conclusion

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*Summarize what you have learned about water pollution:*

Water pollution is a major environmental issue that affects not only the environment but also human health. It is essential to understand the primary sources of water pollution, its effects on human health and aquatic ecosystems, and potential solutions for prevention and mitigation. By working together, we can reduce water pollution and protect our planet for future generations.

