



**PLANIT**  
TEACHERS

## Exploring the Negative Effects of Electronic Devices on the Environment: A Guide for 12-Year-Olds

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**Student Name:** \_\_\_\_\_

**Class:** \_\_\_\_\_

**Due Date:** \_\_\_\_\_

### Introduction

The use of electronic devices has become an integral part of our daily lives. However, the production, use, and disposal of these devices have significant environmental impacts. As responsible citizens, it is essential to understand the negative effects of electronic devices on the environment and take steps to mitigate them. This worksheet is designed to help you learn about the environmental impacts of electronic devices and develop eco-friendly habits.

### What is e-waste, and why is it a problem?

E-waste refers to the disposal of electronic devices such as computers, smartphones, and televisions. It is a significant problem because it can lead to environmental pollution, health problems, and waste management issues.

### Complete the following questions:

1. What are some examples of electronic devices that contribute to e-waste?

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2. How can we reduce e-waste in our daily lives? \_\_\_\_\_

## Section 2: Environmental Consequences

### What are some environmental consequences of electronic device use?

The production, use, and disposal of electronic devices can lead to environmental pollution, climate change, and waste management issues. The extraction of raw materials, manufacturing process, and energy consumption all contribute to the environmental impacts of electronic devices.

### Complete the following questions:

1. How does the production of electronic devices affect the environment?

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2. What are some health problems associated with e-waste?

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### What are some ways to reduce energy consumption when using electronic devices?

Some ways to reduce energy consumption include turning off devices when not in use, using energy-efficient devices, and adjusting screen brightness.

### Complete the following questions:

1. How can we promote sustainable practices in our daily lives?

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2. What are some benefits of recycling electronic devices?

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**Imagine you are a designer of electronic devices. How would you design a device that is environmentally friendly?**

**What are some challenges associated with reducing e-waste, and how can we overcome them?**

## Section 5: Creative Expression

**Create a poster or infographic that illustrates the importance of reducing e-waste and promoting eco-friendly habits.**

A large, empty rectangular box with a thin black border, intended for the student to create a poster or infographic. It is positioned within a light green rectangular area that also contains the instruction text above it.

## Conclusion

The negative effects of electronic devices on the environment are a pressing concern that requires immediate attention. By understanding the environmental impacts of electronic devices and developing eco-friendly habits, we can make a positive difference. Remember, every small action counts, and collective efforts can lead to significant positive change.

## Additional Resources

**Visit the website of a local recycling center to learn more about e-waste management and recycling programs.**

**Research and write a short essay on the environmental impacts of electronic devices and ways to reduce e-waste.**

**Create a public service announcement to raise awareness about the importance of eco-friendly habits and reducing e-waste.**



## Assessment

**Complete all sections of the worksheet**

**Create a poster or infographic that illustrates the importance of reducing e-waste and promoting eco-friendly habits**

**Write a short essay on the environmental impacts of electronic devices and ways to reduce e-waste**

**Participate in a class discussion on the topic and share your thoughts and ideas**

## Extension Activity

**Design a sustainable electronic device that minimizes e-waste and reduces energy consumption.**