



Здружение на Граѓани ЕКО ЛОГИК

Ул. Бранислав Нушиќ 13-1/17

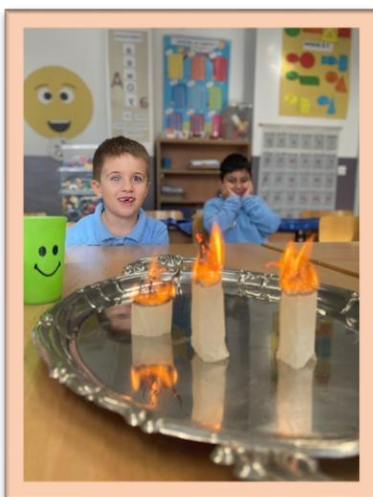
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CHANGES IN MATERIALS: COMBUSTION

<https://youtu.be/X5nw52o6O7c?si=8FMxrBY5qs04afji>



1. INTRODUCTION

This activity explores combustion as a process of material change. Students observed how materials behave during burning and identified key characteristics of this process.

2. LEARNING OBJECTIVES

- Identify combustion as an irreversible change
- Understand the risks of fire in everyday life
- Recognize the environmental impact of burning

3. MATERIALS



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- Tea filter bag / filter paper
- Fire-resistant surface
- Scissors
- Lighter

4. EXPERIMENTAL ACTIVITY

Students conducted an experiment by burning a tea filter bag and observing the changes during combustion.

5. PROCEDURE

1. Open and empty the tea filter bag
2. Shape it into a cylinder
3. Place it on a fire-resistant surface
4. The teacher lights the material
5. Observe the process carefully

6. OBSERVATIONS

- The material burns and turns into ash
- The burned material rises into the air
- Heat and smoke are released

7. KEY FINDINGS

- Combustion is an irreversible chemical change
- Burning releases heat, smoke, and toxic substances



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- Fire negatively affects the environment and living organisms

8. CONCLUSION

Combustion is a process that cannot be reversed and has significant environmental consequences. Understanding this process helps raise awareness about fire prevention and environmental protection.

9. SAFETY NOTE

⚠ Always follow safety rules when working with fire.



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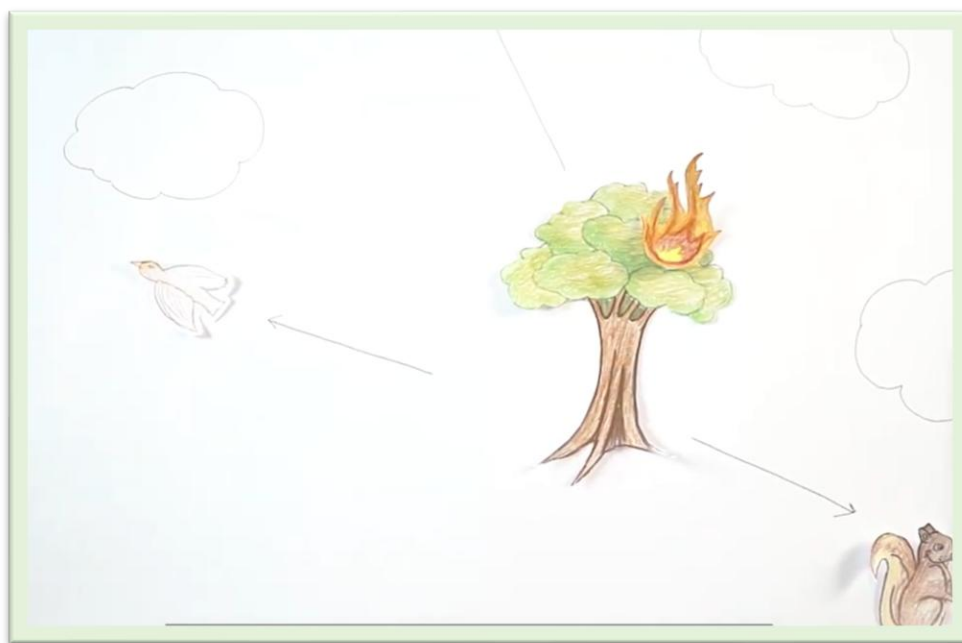
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THE IMPACT OF HUMANS ON THE ENVIRONMENT

<https://youtu.be/upcPFBFuO9M?si=OokKnR9fc8XZdCgx>



1. INTRODUCTION

This lesson focuses on the relationship between living organisms and the environment, with special emphasis on the impact of human activities. Students are introduced to environmental issues such as pollution and are encouraged to think about sustainable solutions through reuse and recycling.

2. LEARNING OBJECTIVES

- Understand the impact of human activities on the environment
- Identify ways to protect the environment
- Learn the concepts of reuse and recycling



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- Develop awareness of sustainable practices
- Apply knowledge through hands-on experimental activity

3. MATERIALS

- Used sheets of paper
- Plastic container
- Gauze
- Water
- Electric kettle
- Baking paper

4. EXPERIMENTAL ACTIVITY

Students participate in an experiential learning activity where they recycle used paper and transform it into a new material. This hands-on experiment helps them understand the process and importance of recycling.

5. PROCEDURE

- Place gauze at the bottom of a plastic container
- Pour moderately warm water (around 40°C) into the container
- Soak used paper in the water
- Leave the paper for about 10 minutes
- Carefully lift the paper using the gauze
- Drain excess water and shape the paper into a ball
- Spread the paper mixture evenly onto baking paper in a rectangular shape



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- Leave the material to dry in the sun or under an electric lamp

Observe the process carefully

6. OBSERVATIONS

- The paper softens and breaks down in water
- A pulp-like mixture is formed
- Water is removed through draining
- The material changes shape and texture after drying
- A new reusable material is created

7. KEY FINDINGS

- Used paper can be recycled and reused
- Recycling reduces waste and protects the environment
- Hands-on activities improve understanding
- Human actions can positively impact environmental protection

8. CONCLUSION

Students conclude that reuse and recycling are essential methods for reducing pollution and protecting the environment. Through this activity, they understand that small actions can make a big difference and that they have a role in preserving nature.

9. SAFETY NOTE

- Use warm water carefully to avoid burns
- Handle materials responsibly
- Keep the workspace clean and organized



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- Follow teacher's instructions at all times





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