Dr. d's Max's Adventures: Teacher Discussion & STEM Guide Series

Supporting Science, Creativity, and Curiosity for Young Learners (Ages 4–8)

Created for classroom / homeschooling use |

🎓 **Max's Adventures Educational Series**

Teacher Discussion & STEM Guides

About This Series:

- The ***Max's Adventures Educational Series***® combines **storytelling**, **imagination**, and **science** to inspire curiosity and creativity in young learners.
- Each short, 3D-animated episode, explores a real-world science idea through humor, heart, and hands-on discovery.
- These Teacher Guides are designed to help educators and parents connect each story to fun science learning experiences that align with **Next Generation Science Standards (NGSS)** for early elementary learners.

Episode Title: *The Wrapper Trap*

About This Resource:

This Teacher Guide is part of the **Max's *Adventures* Educational Collection** — a series of story-based STEM lessons for early learners.
Each episode blends storytelling, emotional learning, and hands-on science that connects directly to NGSS concepts.

Includes:

- Discussion questions that promote observation, reasoning, and problem-solving.
- Simple STEM or creative design challenges that support Next Generation Science Standards (K–2).
- Reflection prompts that help children link science to everyday experiences.

© Max's Adventures ® Educational Series

Dr. d's Max's Adventures: Teacher Discussion & STEM Guide Series

Supporting Science, Creativity, and Curiosity for Young Learners (Ages 4–8)

Created for classroom / homeschooling use |

The Wrapper Trap!

Lesson Focus: Environmental science and recycling

Science Connection: Human impact on Earth and reusing materials to reduce waste

NGSS Link: K–ESS3, 2-ETS1

Use this guide for:

🧠 Classroom instruction
🏡 Homeschool learning
🎨 Group science activities
🗣️ Discussion and reflection time

Discussion Questions

1. **What problem did Max have with his candy wrappers?**
   How did his actions affect his room and the environment?
2. **Where does trash go when we throw it away?**
   Does it disappear, or go somewhere else?
3. **Why is it important to recycle or reuse materials?**
   What happens when we don't?
4. **What materials in Max's wrappers could be reused or recycled?**
   What other things could you reuse at home?
5. **If you were an engineer, how could you stop "The Wrapper Trap"?**
   Can you design a machine, rule, or idea to reduce waste?
6. **What did Max learn about helping the planet?**
   How can science help us take care of the Earth?

© Max's Adventures ® Educational Series

STEM Activities

1. Wrapper Rescue Challenge

Goal: Design a mini "Recycling Machine" using simple materials.
Materials: Cardboard tubes, rubber bands, tape, boxes, scissors, and scrap paper.
Instructions:

- Design a device that collects or sorts paper "wrappers."
- Test it by blowing scraps with a straw to simulate wind.
  Science Link: Engineering design and motion — solving a problem with a tool.

---

2. Candy Wrapper Upcycling Art

Goal: Reuse materials creatively to reduce waste.
Materials: Clean wrappers, glue, paper, markers, scissors.
Instructions:

- Create a poster, collage, or sculpture using recycled materials.
- Label it with a positive environmental message.
  Science Link: Human impact and reusing materials.

Teacher Reference: Sample Discussion Answers

1. Max's wrappers built up and created litter. Science helps us understand cause and effect.
2. Trash goes to landfills or recycling centers; it doesn't just disappear.
3. Recycling saves energy and resources, helping animals and people.
4. Wrappers made of foil or paper can often be reused.

© Max's Adventures ® Educational Series

5. Build machines or rules to recycle more — apply engineering thinking.
6. Max learned that small choices add up to big changes for the Earth.

Max's Adventures: Teacher Notes & Key Takeaways

Key Science Ideas to Reinforce

- Cause and effect — how actions affect the environment.
- Engineering and problem-solving — building to reduce waste.
- Human choices — protecting our planet.
- Observation and discussion — science through discovery.

Teacher Reflection Notes

Extension Ideas for Next Time

- Start a classroom recycling bin or sorting station.
- Visit a recycling center or community cleanup.
- Create a "Trash Tracker" chart for a week.
- Read books about protecting the Earth.

© Max's Adventures ® Educational Series