

# **Lesson 6: Gross but Great Science — Exploring the Human Body with the National Geographic Gross Science Kit**

## **Subject: Biology & Fun Science**

Turn 'eww' into 'wow!' with hands-on experiments that teach kids about the human body, chemistry, and biology in the most memorable way possible — through safe, silly, and slimy science.

## **Learning Objectives**

- 1 Understand key biological systems and reactions through sensory learning.
- 2 Develop curiosity about how the body works using tactile, kid-friendly experiments.
- 3 Apply the scientific method: hypothesize, test, and record results.
- 4 Encourage observation, discussion, and laughter while learning science safely.

## **Materials Needed**

- 1 National Geographic Gross Science Kit
- 2 Disposable gloves and paper towels
- 3 Plastic table cover or tray
- 4 Notebook for observations
- 5 Optional: magnifying glass or camera for close-up photos

## **Lesson Procedure**

- 1 Introduction: Discuss how our bodies produce interesting (and sometimes gross!) substances and why they serve important functions.
- 2 Experiment Choice: Pick 2–3 experiments (make slime, fake mucus, or dissect a model brain) and review directions together.
- 3 Observation: Ask questions during each step — 'What do you notice?' 'What changes?' 'Why might that happen?'
- 4 Data Collection: Record what happens to texture, color, and reaction time. Use descriptive, scientific vocabulary.
- 5 Compare & Contrast: Discuss which experiments were fast, sticky, or solid — and what caused the differences.
- 6 Reflection: Have learners explain one gross experiment and what real-life body process it models.

## **Discussion & Reflection**

- 1 What makes some body reactions helpful instead of just gross?
- 2 Why is it important for scientists to study substances like mucus or bacteria?
- 3 What did you learn about how different materials react together?

## Extensions & Activities

- 1 ELA Connection: Write a 'Gross Science Report' using descriptive words for textures, smells, and reactions.
- 2 STEM Challenge: Design your own safe 'gross' experiment using everyday materials (gelatin, vinegar, baking soda).
- 3 Art Integration: Draw a comic strip about your favorite gross experiment or create a 'Mad Scientist' poster.

## Parent & Teacher Tips

- 1 Encourage kids to use science language instead of 'yuck!' when describing reactions.
- 2 Discuss how these experiments model real biological functions (digestion, mucus defense, chemical reactions).
- 3 Use humor and curiosity — this type of experiment builds engagement and long-term memory.
- 4 Take photos or videos of each step to document results and progress.

## Wrap-Up

Gross science is memorable science. By exploring texture, smell, and reactions in a hands-on way, students turn curiosity into understanding — learning that biology and chemistry are all around us, even in the 'gross' stuff!