

LESSON PLAN IN SCIENCE GRADE 4

Topic: Materials that Absorb Water

Grade Level: 4

Time Allotted: 45 minutes.

Objectives:

By the end of this lesson, students will be able to:

- A. Identify materials that absorb water.
- B. Explain how these materials absorb water.
- C. Understand the importance of materials that absorb water in everyday life.

Materials Needed:

Small containers

Paper towels

Sand

Cotton balls

Sponges

Cloth

Plastic baggies

Measuring cup

Water

Chart paper and markers

Procedure:

Introduction (5 minutes)

Begin by asking the students what they know about materials that absorb water. Record their responses on chart paper.

Explain to the students that today's lesson is about materials that absorb water.

Ask the students why they think knowing about materials that absorb water is important.

Explain to the students that we use materials that absorb water in many ways in our daily lives.

Activity 1 - Identifying Materials that Absorb Water (20 minutes)

Give each student a small container and a paper towel.

Have the students add one tablespoon of sand, cotton balls, sponge, and cloth to their containers.

Ask the students to predict which material will absorb the most water.

Have the students pour 1/4 cup of water into their containers.

Ask the students to observe what happens to each material.

Have the students record their observations on a piece of paper.

Discuss the results with the students. Ask them which material absorbed the most water.

Activity 2 - Explaining How Materials Absorb Water (10 minutes)

Ask the students how the materials absorbed the water.

Discuss with the students how different materials absorb water differently.

Explain to the students that materials that absorb water have small spaces or holes that trap water.

Demonstrate this by using a plastic baggie with small holes in it. Place a paper towel inside the baggie, seal it, and submerge it in water. The paper towel will absorb the water through the small holes.

Activity 3 - The Importance of Materials that Absorb Water (10 minutes)

Ask the students to brainstorm ways that we use materials that absorb water in our daily lives.

Record their responses on chart paper.

Discuss the importance of materials that absorb water in everyday life, such as cleaning up spills, keeping plants hydrated, and filtering water.

Conclusion (5 minutes)

Recap the lesson by asking the students to share one thing they learned about materials that absorb water.

Ask the students to explain why knowing about materials that absorb water is important.

Assessment:

Observe the students during the activities and ask questions to check for understanding. Use their responses during the conclusion as an informal assessment. Additionally, students can complete a short written response to what they learned about materials that absorb water.

Extension:

Students can research and create a poster on the different materials that absorb water and their uses in everyday life. They can also experiment with different materials to see how much water each one can absorb.