

SCIENCE EXPERIMENT

PEPPER AND SOAP TRICK

A tiny drop of soap... and watch the magic happen!

Observe.
Wonder.
Discover!



Name : _____



Class : _____



Date : _____

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PEPPER & SOAP TRICK!



A FUN SCIENCE EXPERIMENT!

Watch what happens when soap meets pepper! This experiment shows how soap breaks the surface tension of water.



YOU WILL NEED:



Ground black pepper



Plate or shallow dish



Water



Liquid dish soap



Cotton swab (Q-tip)

LET'S DO IT!

- 1 Pour water into the plate or shallow dish.
- 2 Sprinkle ground black pepper evenly over the surface of the water.
- 3 Watch the pepper. It will float on the water.
- 4 Dip a cotton swab into the liquid dish soap.
- 5 Gently touch the tip of the swab to the center of the water.
- 6 Watch what happens!



SAFETY FIRST!

- This experiment is safe but should be done with adult supervision.
- Do not drink the water or soap.
- Wash your hands after the experiment.



WHAT'S HAPPENING?

Water has a "skin" on top called surface tension. Pepper is light, so it floats on that skin. Soap breaks the surface tension, causing the water to move away from the soap. This pushes the pepper to the edges of the plate!



WHAT DO YOU OBSERVE?

- At first, the pepper floats on the water.
- When the soap touches the water, the pepper quickly moves away from the center.
- The pepper rushes to the edges, leaving a clear space in the middle!



TRY THIS!



- Try using different types of soap (hand soap, shampoo, body wash). Do they all work?
- What happens if you use too much soap?
- Can you make shapes or patterns by touching the soap in different places?

★ SCIENCE IS MAGIC WHEN YOU OBSERVE AND EXPLORE! ★
HAVE FUN EXPERIMENTING!

Name: _____

Date: _____



PREDICTION SHEET

Science Experiment

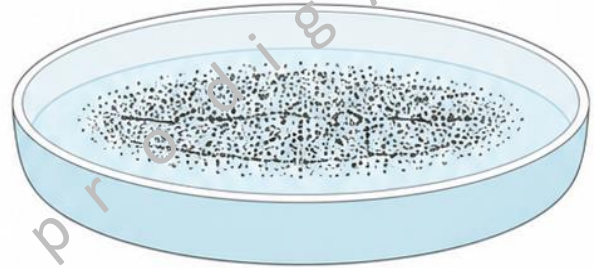
SALT AND PEPPER



1. What do you see?



Describe what you think will happen when salt is added to pepper on water.



2. My Prediction



I think that when salt is added, the pepper will _____

A prediction is your best guess before the experiment!

3. Why do you think so?



Write the reason for your prediction.



Name: _____

Date: _____



OBSERVATION SHEET

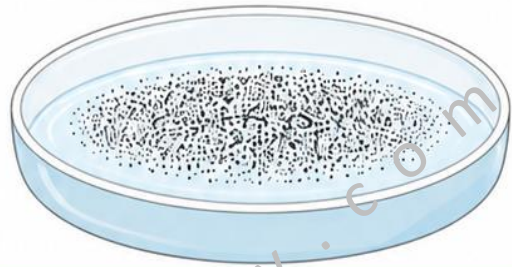
Science Experiment

SALT AND PEPPER



What we did:

We put water in a plate and sprinkled pepper on the surface. Then we added salt to the water.



1. Before adding salt



Draw what you observed before adding salt.

What I observed:

2. After adding salt



Draw what you observed after adding salt.

What I observed:

3. Final Observation



Write what happened when salt was added to the water with pepper.

4. Conclusion



What did you learn from this experiment?



Name: _____

Date: _____



RESULT SHEET

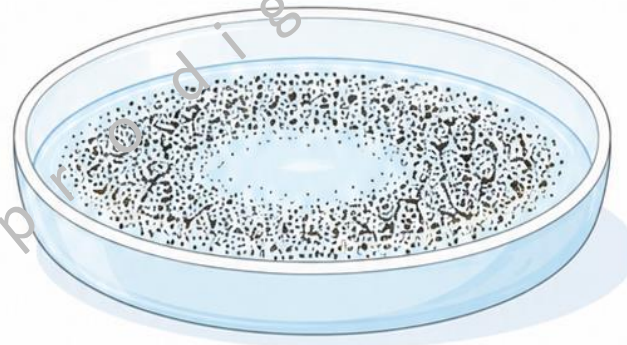
Science Experiment

SALT AND PEPPER



Purpose of the Experiment

What was the purpose of this experiment?



What were the Results?

Write the results of the experiment.

Explanation



Explain why this happened.

Conclusion



What did you learn from this experiment?



Great work! You discovered something amazing!

Name: _____

Date: _____



REFLECTION SHEET

Science Experiment

SALT AND PEPPER

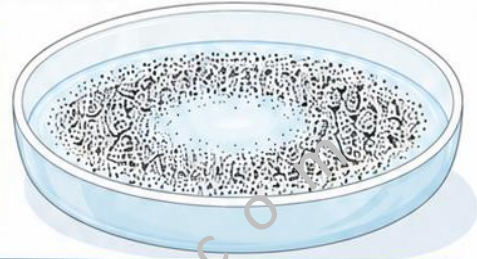


Experiment Used:

Salt and Pepper

What we did:

We put water in a plate and sprinkled pepper on the surface. Then we added salt to the water.



1



What did you observe during the experiment?

2



What did you learn from this experiment?

3



What surprised you the most? Why?

4



What questions do you still have?

5



If you could do this experiment again, what would you change?



Science is all about exploring, learning
and asking questions!

Great job, Scientist!