



SCIENCE EXPERIMENT

Observing the Formation of Dew on Different Surfaces

Name: _____

Date: _____

Question: How does the type of surface affect the formation of dew?



PURPOSE

To observe and compare the formation of dew on different surfaces.



HYPOTHESIS

If surfaces have different properties (such as texture or material), then the amount of dew that forms on them will be different.



MATERIALS

- 4–6 different surfaces (examples below)
- Clear plastic wrap
- Rubber band or tape
- Bowl or tray
- Ice cubes
- Towel
- Timer or clock
- Notebook or this lab sheet
- Thermometer (optional)

EXAMPLES OF SURFACES

- Metal (spoon or aluminum foil)
- Glass (cup or jar)
- Plastic (container lid)
- Wood (craft stick or block)
- Fabric (cotton cloth)
- Stone (small tile or rock)



PROCEDURE

1. Gather 4–6 different surfaces. Clean and dry each one.
2. Stretch plastic wrap tightly over the top of a bowl or tray. Secure it with a rubber band or tape.
3. Place the surfaces on top of the plastic wrap, making sure they are not touching each other.
4. Put ice cubes in the bowl or tray under the plastic wrap. (This cools the air and helps dew form.)
5. Place the setup in a room temperature area away from direct sunlight.
6. Wait 30–60 minutes.
7. Observe the surfaces. Look for water droplets (dew) on each surface.
8. Record your observations in the table below.



OBSERVATIONS

Surface	Texture (Smooth, Rough, etc.)	Dew Formed? (Yes / No)	Amount of Dew (None, Few, Many)	Size of Dew Droplets (Small, Medium, Large)	Notes / Drawings



CONCLUSION

1. Which surface had the most dew? _____
2. Which surface had the least or no dew? _____
3. What patterns did you notice about the surfaces and the amount of dew? _____

4. Why do you think dew formed differently on the surfaces? _____



SCIENCE CONNECTION

Dew forms when water vapor in the air cools down and turns into liquid on a cooler surface. Different materials can get cool at different rates and hold water differently.



Tip: Try this experiment again on a different day or outside overnight to see if your results change!