📚 Liquids Review

Week 8 — Friday | Reviewing Liquid Properties and Flow Rates

📖 Reading Time

> This week we explored liquids in detail. Liquids are one of the three states of matter. Unlike solids, liquids do not keep their own shape — they flow and take the shape of their container.
>
> We learned that liquids have different **viscosity**. Some liquids are thin and flow fast, like water. Others are thick and flow slow, like honey. We tested this in our flow rate experiment by racing liquids down a ramp.
>
> We also discovered that some liquids mix and others do not. Oil and water never mix because oil is less dense than water. The oil always floats on top. Scientists use these properties to separate and identify different liquids every day.

✏️ Reading Questions

1. What are the three states of matter?

2. How are liquids different from solids?

3. What does viscosity tell us about a liquid?

4. Why do scientists need to know the properties of liquids? Give one example.

🔧 Best Liquid for the Job

Circle the best liquid choice for each situation and explain why.

Situation	Choice A	Choice B	Why?
You are thirsty.	Water	Motor Oil	
You need to lubricate a squeaky hinge.	Water	Oil	
You want something sweet to drizzle on pancakes.	Milk	Syrup	
You need to wash dishes.	Soap	Honey	
You want a drink with vitamins.	Juice	Dish Soap	

✅ True or False

- ◯ **1.** Liquids keep their own shape no matter what.
- ◯ **2.** Water has a lower viscosity than honey.
- ◯ **3.** Oil and water mix together to form one liquid.
- ◯ **4.** A fair test means every liquid is tested the same way.
- ◯ **5.** Flow rate measures how fast a liquid moves.
- ◯ **6.** All liquids are the same color.
- ◯ **7.** Milk is a liquid.
- ◯ **8.** Thick liquids usually flow faster than thin liquids.

🔗 Match the Liquid to Its Property

Liquid	Property Description
Water	A. Very thick, high viscosity, sweet taste
Honey	B. Thin, clear, flows very fast
Vegetable Oil	C. Does not mix with water, floats on top
Milk	D. White liquid, comes from cows
Dish Soap	E. Used to clean, thicker than water

🎨 Design a Density Jar

Draw a jar with 4 layers of liquids from bottom (most dense) to top (least dense). Label each layer.

Liquids to layer: Honey (bottom), Water, Vegetable Oil, Dish Soap

Why do the layers stay separate?

📓 Science Journal

Prompt 1: What was the most interesting thing you learned about liquids this week?

Prompt 2: Describe a liquid from your home that has a very high viscosity.

Prompt 3: What would you like to experiment with next week about gases?

⭐ Week 8 Review Checklist

Fill in the blanks to review what you learned this week.

1. A _____ flows and takes the shape of its container.

2. Viscosity tells us how _____ or _____ a liquid is.

3. A liquid with high viscosity flows _____.

4. A liquid with low viscosity flows _____.

5. Oil floats on water because oil is less _____ than water.

6. In our experiment, we tested _____ by racing liquids down a ramp.

7. Name one liquid that does not mix with water: _____.