



Solids Deep Dive

Week 7 — Monday | Properties of Solid Matter



Reading Time

Remember from last week — solids, liquids, and gases are the three states of matter. This week we are focusing on **solids**. A solid is matter that keeps its own shape. If you pick up a rock and set it down, it stays a rock. If you put a book on a shelf, it stays a book. Solids do not flow or spread out.

Not all solids are the same! Some are **hard** like a brick, and some are **soft** like a sponge. Some are **heavy** and sink in water, and some are **light** and float. Some solids are **absorbent** — they soak up liquid — and some are **waterproof**.

You can also describe solids by their **texture**. A solid can be rough or smooth, bumpy or flat. You can feel these differences with your hands. Scientists use all their senses to study the properties of matter!



Reading Questions

1. What keeps its own shape — a solid, a liquid, or a gas?

2. Name two different ways solids can be different from each other.

3. What does absorbent mean?

4. Why do you think some solids float and others sink? Explain your thinking.



Vocabulary Grid

Write a definition or draw a picture for each word.

Solid

Hard

Soft

Floating

Sinking

Texture

Sink or Float Sort

Predict which solids will SINK and which will FLOAT in water. Check with a circle after you test!

Solid	Predict S/F	Actual S/F
Rubber eraser		
Wooden block		
Rock or stone		
Metal spoon		
Sponge		
Plastic lid		
Coin		
Cork		

True or False

- ☐ 1. All solids sink in water.
- ☐ 2. Some solids are soft.
- ☐ 3. A sponge is an absorbent solid.
- ☐ 4. Solids change their shape easily.

Draw the Solids

Draw one solid that floats and one solid that sinks.

Floats

Sinks

Compare Solid Properties

Solid	Hard or Soft?	Rough or Smooth?	Sinks or Floats?
Brick			
Sponge			
Glass			
Cloth			
Rubber ball			

Think About It

1. Can something be both hard and float? Give an example.

2. What makes you think decides if a solid sinks or floats?

Fill in the Blanks

Word Bank:

solid shape sink float absorbent texture

1. A _____ keeps its own shape and does not flow.
2. A heavy stone will _____ in water.
3. A cork will _____ on water.
4. A sponge is _____ — it soaks up water.
5. The _____ of a rock is rough and bumpy.

Solid Hunt Around the House

Find **3 solids** for each property. Test them with your hands!

Property	Example 1	Example 2	Example 3
Hard			
Soft			
Smooth			
Rough			
Absorbent			

Experiment: Sink or Float Challenge

Materials: a bowl of water, 5 small solid objects from around the house

Step 1: Pick 5 solids and write their names below.

Step 2: Predict which will sink and which will float.

Step 3: Test each one in water. Record the results!

#	Object	Prediction	Result	Was I right?
1				
2				
3				
4				
5				

What pattern did you notice? What kind of things tend to sink?

Solid Property Review

Circle the word that best describes each solid.

Solid	Hard / Soft	Rough / Smooth	Sinks / Floats
Leather shoe			
Cotton ball			
Metal key			
Sticky note			