

# Properties and Behavior of Matter Notebook

What are properties? \_\_\_\_\_

Illustrate the three main states of matter and summarize the properties of each including how the molecules are packed.

A large rounded rectangular box with a dashed horizontal line near the top, intended for illustrating the first state of matter. A large, light gray watermark reading "SAMPLE" is oriented diagonally across the page, passing through this box.

A second large rounded rectangular box with a dashed horizontal line near the top, intended for illustrating the second state of matter. A large, light gray watermark reading "SAMPLE" is oriented diagonally across the page, passing through this box.

What is plasma, and what do you need to form it? \_\_\_\_\_

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\_\_\_\_\_

\_\_\_\_\_

What are three places you can find plasma?

What does a superfluid move without? \_\_\_\_\_

What is the only element it has been observed in? \_\_\_\_\_

Summarize the two ways to describe mass. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

What is inertia? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

What is the term for how much space an object takes? \_\_\_\_\_

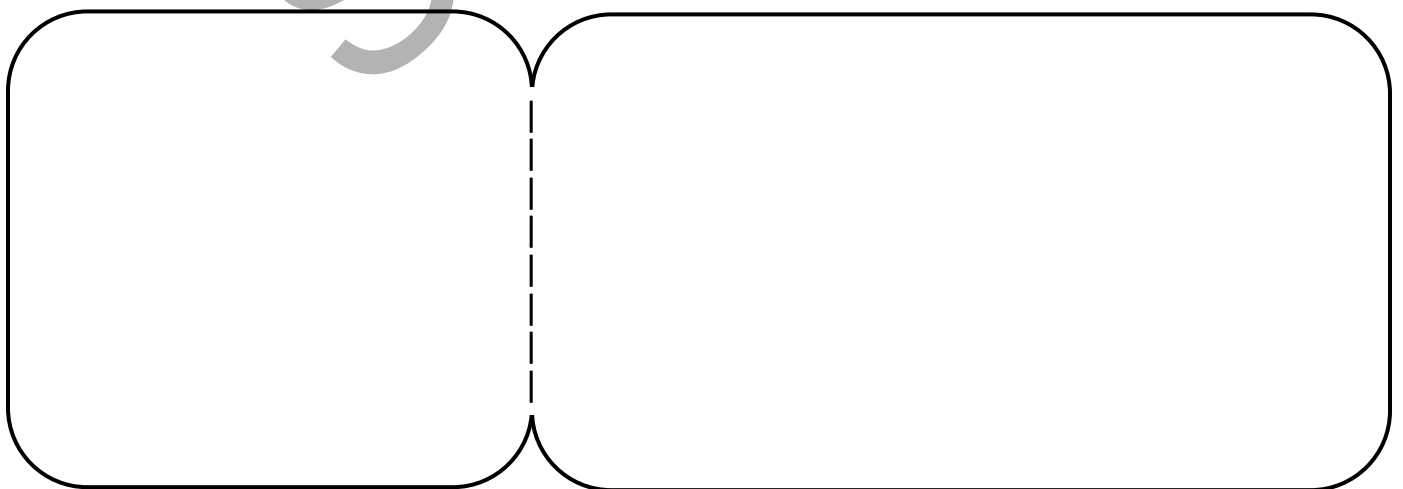
What do you get when you combine mass and volume? \_\_\_\_\_

What happens to something that is too dense when you put it in water?  
\_\_\_\_\_  
\_\_\_\_\_

What does Archimedes' principle explain? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

If two things have the same volume and density, will they displace the same amount of water or different amounts?  
\_\_\_\_\_

Illustrate the difference between something that is transparent, translucent, and opaque, and summarize what these terms mean below.



Metals	Nonmetals
Generally	Many different
Most are solids at	Can exist in
Most are ductile and	Most solids are
Usually good	Usually not

What does it mean to be viscous, and what is an example of a viscous substance?

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What does it mean to be nonviscous, and what is an example of a nonviscous substance?

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What does it mean to have elasticity? \_\_\_\_\_

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What is a boiling point? \_\_\_\_\_

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