

1. Density S	A measurement of how easily a solid can be pounded into thin sheets	1.Tensile	A. A unit of volume that equals 1 mL.			
2 Hardness C	b. A measurement of the "compactness" of a substance, ratio of mass to volume.	Strength 2. viscosity	B. In a formula, what the horizontal line means: ex. the line in $\frac{m}{v}$			
3. Brittleness A	Measure of a solid's ability to return to its original shape after stretching.	3. cm² A	C. Measure of a fluid's resistance to flow (How thick a fluid is.)			
4 Elasticity C	A. A measure of how easily a solid will shatter.	4 g/mL E A	D. Measure of how hard it is to break something by pulling.			
5. Malleability A	A measure of how easily a solid can be scratched.	5.÷ B	E. Unit of density.			
0-111-6	A soccer ball and a	When building a bridge, engineers want the bridge cables to have great <u>levicle</u> Strength				
	bowling ball are approximately the	Glass can be scratched by quartz. Which one is harder?				
	same size.	Lead feels very heavy for its size. It is very <u>Deuse</u> .				
Which one is	smore dense? Bowling Ball	Transmission fluid is a very thick oil that flows slowly. Transmission fluid is very 1/(5 C O∪S				
Why? W	lore matter, same volume	When a fluid get	s hotter, do you think it will be more or			

Object B

Why Same Math smaller An object has a volume of 3.5 cm³ and a mass of 7 grams. Find the object's density.

Object A

If 60 grams of a liquid takes up 120 mL, how dense is the liquid?

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Which object is the

most dense? R

When a fluid gets hotter, do you think it will be more or less viscous? (Think of warmed-up syrup.) US

When gold is hammered it "squishes". Iron Pyrite is known as Fool's Gold". It is not Maleble like gold. but shatter into many pieces when struck by a hammer. Iron Pyrite is Driftle.

A hunter's wood bow stores energy that is given to the arrow. The wood's ability to springs back means it is very elastic

Challenge: If a substance has a density of 2.5 g/cm3, how much mass will 50 cm3 of it have?

1) 50cm

d= M m= 50 cm3.2. 5 g/m3

In science we describe substances and their various properties. Each substance has many different properties. Fill in the following table, deciding how each property best describes the following substances.



		1.1		· · · · · · · · · · · · · · · · · · ·				
Substance	Dense?	Brittle?	Viscous?	Malleable?	Elastic?	Hard?	Tensile Strength?	
Glass	medium	<i>y</i> es	N/A	no	no	yes	high	
Rubber	med	NO	N/A	No	1.05	No	Hich	
lce	(ow	ves	NIA	No	No	Med	/ow	
Molasses	Med	nla	Ver	NA	WA	NA	NA	
Steel	Devise	NO	NIA	Yes	A little	les	High	
Styrofoam	Low	No	NA	1/2	A little	No	Low	