Which object is the less dense?

Properties of Matter Review

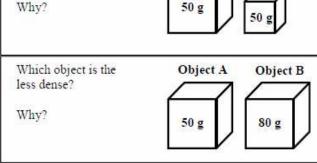
A. A unit of volume that equals 1 mL.

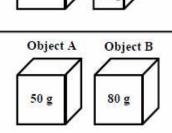
1. Density	a. A measure of how easily a solid can be scratched.
2. Brittleness	b. A measurement of how easily a solid can be pounded into thin sheets.
3. Hardness	c. A measurement of the "compactness" of a substance; ratio of mass to volume.
4. Elasticity	d. Measure of a solid's ability to return to its original shape after stretching.
5. Malleability	e. A measure of how easily a solid will shatter.

A measure of how easily a solid will hatter. Object A Object B	5. g/mL A rock climber	means: ex. the line in: wants a rope with great
Measure of a solid's ability to return to	4. 5. ÷	D. Unit of density. E. In a formula, what the horizontal line
A measurement of the "compactness" of substance; ratio of mass to volume.	3. cm ³	C. Measure of how hard it is to break something by pulling.
A measurement of how easily a solid an be pounded into thin sheets.	2. viscosity	(How thick a fluid is.)
cratched.	Strength	B. Measure of a fluid's resistance to flow.

1.Tensile

Strength

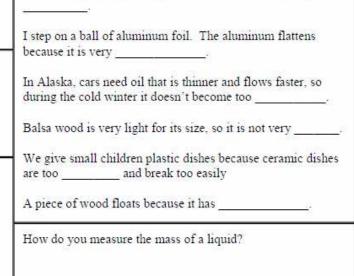




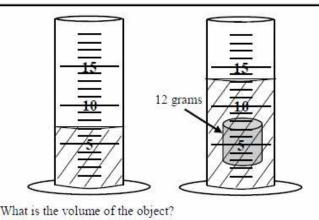
A 15 g object has a volume of 30 cm³. Find its density.

A 12 g object has a volume of 6 mL. Find its density.

A 35 mL object has a density of 2 g/mL. Find its mass.



A child bends a toy. It stays bent because it wasn't very



What is the volume of the object?

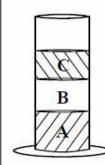
What is the object's density?

Which is more dense: liquid iron or solid iron? Which is more dense: gaseous CO2 or liquid CO2? Which is more dense: liquid water or solid water?

How do you measure the volume of a floating object?

A 200 g object displaces 150 g of water. Float or sink? A 300 g object displaces 350 g of water. Float or sink?

A 250 g object displaces 300 g of water. How much cargo can it hold?



Which liquid is which? A, B, or C?

D = 1.00 g/mL = Liquid

D = 0.75 g/mL = Liquid ____

D = 1.83 g/mL = Liquid

Label the liquid you know.

In the column, where would a cube of density 0.89 be?

Draw where ice will be in the column.

1. Isotope	A. An average of all the isotopes; the mass of average atom.	How many valen	How many valence electrons?		
2. Atomic mass	B. An atom with an equal number of electrons and protons.	Helium () Calcium ()			
3. Atomic #	C. An atom with more or less electrons than protons.	Sulfur ()	101 V2.4		
4. Neutral atom	different number of neutrons.		Calcium andhave the same reactivity. Oxygen andhave the same reactivity. Helium and have the same reactivity.		
 Ion Mass # 	in the nucleus. F. Number of protons; determines the element.	1. Bohr	A. Discovered that atoms have a nucleus.		
Metal or Non-met	200	2. Dalton	B. Realized that there was a smallest part of matter.		
Titanium (3. Democritus	C. Discovered that electrons are in distinct orbits.		
Sodium (Hydrogen ()	4. Rutherford	D. Discovered the electron.		
Chlorine (5. Thompson	E. Theorized that atoms cannot be changed chemically.		
8 protons and 10 electrons. Neutral atom or ion? 16 protons and 18 electrons. Neutral atom or ion? 20 protons and electrons. Neutral atom or ion?		A 35 N object feels like 30 N when lowered into a liquid. How much b force does the liquid give?			
Give the element abbreviation and charge. 16 protons and 18 electrons: Element: Charge:		If put into a more vliquid, the object would feel even lighter.			
35 protons and 36 electrons: Element: Charge: Nitrogen with 10 electrons. Charge:		"Atoms are solid." Respond and give reasons for your			
F)-(F Be H	response.	- 49 /359 - E5		
For all of the above: Atoms: Elements: Molecules: Compounds:		Are these different elements? Element A: 17 protons; 18 electrons; 16 neutrons. Element B: 18 protons; 18 electrons; 18 neutrons. Why?			
What is wrong with this picture of an atom?		Are these different isotopes of one another? Element A: 12 protons; 11 electrons; 13 neutrons. Element B: 12 protons; 12 electrons; 14 neutrons. Why?			
		Are these different isotopes of one another? Element A: 18 protons; 18 electrons; 18 neutrons. Element B: 19 protons; 18 electrons; 19 neutrons. Why?			
# of neutrons: # of electrons: # of valence electrons: It is an ion?		Calcium () is in row Calcium has complete electron levels and valence electrons in level			
		Sulfur () is in row Argon has complete electron levels and valence electrons in level			