Item #:	Density Practice			Name:		
Density is measured as t and has a mass of 30gramsink or float when place	ms, its density is 30	\div 50 g/cm ³ , which is 0	.6 g/cm ³ . Density de	etermines whe	ether a substance will	
Use the information prov	vided to find the den	sities. In the "Show Yo	our Work" column,	write the set-	up of the problem.	
Substance	Volume in cm ³	Mass in grams (g)	Show Your Wor	rk I	Density: g/cm ³	
Gasoline	5	3.5				
Milk	10	10.3				
Gold	8	154.4				
Aluminum	12	32.4				
Water (at 4°C)	14	14				
Water (at 20°C)	16	15.968				
Ice (at 0°C)	20	18.4				
Find the mystery substar	nce by finding the de	ensity.				
Substance	Volume in cm	Mass in grams 617.6	(g) Show Your	Work	Density: g/cm ³	
-						
	15	17.5				
	24	64.8				
Using the completed tab	le(s) above answer t	he following questions	;			
1) When milk is "mixed"	' with gasoline, which	ch substance will float?) 			
2) Why do ice cubes alw	ays float at the top a	glass of water?				
3) Why do you suppose						
4) In an ocean, the wate water at the bottom? Exp	r is not the same tem lain.	perature throughout. I	Do you think the sur	rface is warme	er or cooler than the	
5) If the density of iron i Show your work.		find an iron nail havin				
6) Using what you know	·					
	w	···			<u> </u>	

⁷⁾ If the volume of a substance is 50 cubic centimeters, and the density is 1.03 g/cm³, what is the mass of the substance? Show your work.