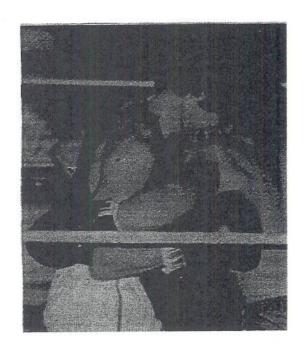
8.1.P.1 Determine physical and chemical properties of elements & compounds. 8.2P.1 Compare & contrast physical and chemical changes and describe how the law of conservation of mass applies... V 1.0 2012

Density & Physical Science Packet "Science With a Punch!"



NAME	PERIOD		
DUE			

8.1P.3 Explain how the motion	and spacing of particles	determines states of matter.
Density Work Sheet 2011		

ensi	ty Work Sheet 2011	
1.	What state of matter would you expect a pure substance with the densities below to be: (Solid, Liquid, Gas)	
	A. 9.34 g/cm3 B. 0.0017g/cm3 C. 1.0 g/cm3 D. 1.11 g/cm3	
2.	What would the density of the water be in a mud puddle with a mass 10000g and a volume of 10000cm 3?	
3.	Please find the density of a cube .46cm on a side and with a mass of 10 g:	56 8
4.	What would the density of a substance with a mass of 5.64 g and a volume of 2.8 cm3 be?	
5.	Write the formula for calculating density: (Impress your parents and teacher and show them the secret sign of science!)	
	App destructive and a second s	G.

BM-Compare and contrast ph	nysical & chemical properties Date Pe Density of S Version 2	of specific substances. MMcCeriod Due_solids	auley©2003					
Framing the Question Question: How would you calculate the densities of solid regularly shaped objects?								
Hypothesis:								
Design the Investigati 1. Feel the "heft or their estimated d	on weight" of the objects lensities below on the	s. Estimate their densition data table.	es and record					
 Find the volume of each object, using the volume formula (V= L X W X H) for the regularly shaped objects. Use water displacement to calculate the volume of the rock and record data. 								
 Find mass of each object using balance and record data on the data table below. 								
4. Calculate the density of each object using the density formula (Density= Mass/ Volume) and record the data on the data table below. Collect and Present Data:								
Object	Slab	Cube	Rock					
Estimated Densities								
Mass of Objects Gm								
Volume of Objects cm3			*This one is tricky					
Density of Objects gm/cm3								

Analyzing and Interpreting Data

1. What is the formula for density?(Literal)

2. If you cut an object in half how do you affect its density?(Inferential)

Density

E E Μ 0 L U E V 0 L CA M E D E S M U S E E Q E N S Ι S В C X Z D G X 0 V J U W J S L V G N L Н U W Ι E U М U N Y 0 S . S . J R E K T K S M Q S L Ι Q U L Μ D W В V F E A W J R L I S I 0 G D S Ι Y Z K E В N W H G В U M Н Z U E

ALCAMEDES FLUIDS LIQUID SOLIDS DENSITY GAS MASS VOLUME

EVAPORATE LAYERS MATTER