Physical Science	Density Determination Lab	Date					
Ms Toal		Period					
KJHS	Name	Name					
OBJECTIVES:							
<u>HYPOTHESIS:</u> All matter l	nas a specific density which is its fingerprint o	of matter.					
	(App	(Apply your detective thinking).					
MATERIALS:							
Triple Beam Balance	5 unknown cylinder metals	10 unknown cubes					
pencil	calculator	chrome book					
For cylinders = graduated	cylinder, beaker, water						
For cubes = ruler (L X W X	$(H \rightarrow cm^3)$						
PROCEDURE:							
1 Gather materials							

- 2. Find the mass using a triple beam balance (units = g).
- 3. Find the volume:
 - Cylinders: graduated cylinder (units = ml)
 - Cubes: ruler (cm³).
- 4. Divide the mass by the volume to find the density of the cylinder or cubes. (units = g/ml or g/cm^3).
- 5. Determine the density of each unknown substance by matching your determined density with a density on the sheet.
- 6. Repeat the same process for the other unknown substances.
- 7. Clean up!!! Put all materials back in their places and dry off table

object	Describe object CUBES!!!	Mass of object (g)	Volume (cm³)	Density of object	Identified Object
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					

Object	Describe	Mass of	Volume of	Density of	Identified Object	
	object	object	object	object		
1.		(g)	(ml)	(g/ml)		
- .						
2.						
3.						
4.						,
5.						,
1. (2. 3. 3. 4. 5. 4. 5. 4. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	Share this graph wi Write down your gr (Period, assignment Why were the units	ROUP!** Use you th me, and title oup members no Last name of t , Last name, fir for the cylinde d you find the c	our chromebood it appropriate ames: he person in y st initial, 2014 ers ml and not	rour group that in the community of the		triple beam
6.	Only one CYLINDER	R floated in wat	er. Which one	(NAME the sub	ostance) was it and WHY o	did it float?
7. l	L ist two possible re	asons why you'r	e results could	d have been inac	curate?	
	•	•		/ ~	olume of 100 ml, or a ball v or "BALL" with the high	
1	ROCK:			BALL:		