

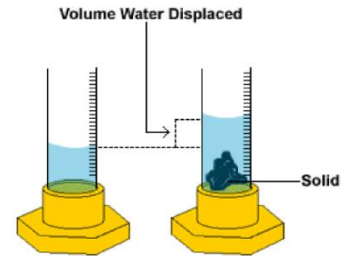
LESSON 3 WORKSHEET
SCENIC SCIENCE

ANSWERS
INITIALS: _____

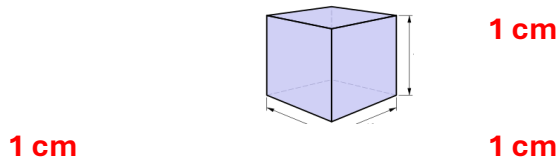
MEASURING VOLUME DISPLACED

1. **Measure** the volume measure the following objects (try this at home – put 25 pennies into a measuring cup with mL marks – I’ll give you all a cup and pennies this week)

- 25 PENNIES cc’s mL
 10 cc **10 mL**
- SPORT BALL **5 cc’s or mL (mL = cubic centimeters)**



2. **Measure with rulers and record** (each side of the cube in centimeters - use cubes provided in class):



3. **Density** Feel the difference in density with each equal cube

DENSITY RANKING (1-3)

Cu (Copper)	~9 g/ml	9 x denser than water	2
Al (Aluminum)	~3 g/ml	3 x denser than water	3
Pb (Lead)	~11.5 g/ml	11 ½ x denser than water	1

Which ELEMENT is most dense: **Pb (LEAD)**

PANNING FOR HEAVY METALS



Dense minerals tend to remain close to the bottom while lighter minerals layer on top. Using your test tube, pan back and forth lengthwise. Then, slowly tip the test tube upright. Observe the colors that emerge.

QUESTIONS

UNDERLINE THE RIGHT ANSWER

1. What color appears to “hug” the bottom? Gray or White
2. Are you able to observe a lighter colored layer on top? Yes or No
3. Where do the pink/red flakes tend to settle out? Top or Bottom
4. Iron sand is denser than Quartz sand. Which color is iron? Gray or White
5. Which color is Quartz sand? Gray or White