

## Density Lab Practical Assessment “Mystery Objects”

**The Challenge:** What substances are the two (2) “Red Mystery Objects” made of?  
(Hint: They are made from one of the objects in the table below)

- Write down the procedure you will use to determine the identity of the substance that the mystery object is made of.
- Carry out your procedure and show your work. Points will be given for accurate measurements, calculations, and the correct identity. **\*\* Don't forget to record the letters of your objects!! \*\***

<b>Red Mystery Object letter:</b>	<b>Red Mystery Object letter:</b>
Record the results of your measurements:	Record the results of your measurements:
Clearly show all your calculations:	Clearly show all your calculations:
Identity of the “Red Mystery Object”:	Identity of the “Red Mystery Object”:

Name of Substance	Approximate Density -at room temperature (g/cm <sup>3</sup> )
Titanium	4.1
Aluminum	2.7
Sulfur (rhombic)	2.1
Polyvinyl Chloride (PVC)	1.5
Brass	5.6
Steel	7.9
Lead	11.4
Copper	8.9
Nickel	4.9
Nylon	1.2
Water	1.0