WInnetonka High School: Density Practice Worksheet Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Complete the table:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Material | Mass  (grams) | Volume  (cm3) | Write out the problem  (with units) | What is the density of the material?  Remember to include units & use the correct sig fig’s!! ! | Will it float in water at 4o C? |
| Butter |  |  |  |  |  |
| H20 at 4oC | 88.0g | 88.0 cm3 |  |  |  |
| H20 at -10oC | 41.25g | 45.0 cm3 |  |  |  |
| Gold | 965.0g | 50.0 cm3 |  |  |  |
| Styrofoam | 100.0g | 1000.0 cm3 |  |  |  |
| Table salt | 25.0g | 11.6 cm3 |  |  |  |
| 2” by 4” board | 1240.0 g | 2500.0 cm3 |  |  |  |
| An oak table leg | 1200.0g | 1750.0 cm3 |  |  |  |
| A metal ruler | 42.0g | 10.0 cm3 |  |  |  |
| A concrete block | 5100.0g | 2500.00 cm3 |  |  |  |
| 2-liter bottle of Coke | 2030.0g | 2000.0 cm3 |  |  |  |
| A small person | 53,000.0g | 54,000.0 cm3 |  |  |  |
| A concrete boat hull | 1,406,000.0g | 1,700,000.0 cm3 |  |  |  |