

**Chapter 2 Density / Buoyancy Questions:**

1 pt ec printing

Answer the questions that are shaded: **Show your work for FULL credit!**

<b>Object</b>	<b>Mass</b> (gram)	<b>Volume</b> (mL or cm <sup>3</sup> )	<b>Density</b> (g/mL or g/ cm <sup>3</sup> )	<b>Sink or Float?</b>
Piece of Cork	24	100	Question 1	Question 2
Piece of Wood	89	10	Question 3	Question 4
Steel Cube	7.8	1	Question 5	Question 6
Steel Nail	Question 7	1.6	7.8	Question 8
Block of Gold	575	Question 9	19.3	Question 10
Ice Cube	Question 11	1	0.92	Question 12

<b>Object</b>	<b>Mass</b> (gram)	<b>Volume</b> (mL or cm <sup>3</sup> )	<b>Density</b> (g/mL or g/ cm <sup>3</sup> )	<b>Sink or Float?</b>
Rubber Stopper	33	30	Question 13	Question 14
Milk Carton	2	Question 15	0.95	Question 16
Block of Aluminum	81	30	Question 17	Question 18
Pinewood	Question 19	25	0.50	Question 20

**Formulas to Remember:**

$$D = m/v$$

$$V = D/m$$

$$m = D \times V$$

D= Density

V= Volume

m= Mass

Remember: Density of water is 1.

For an object to float, the density must be LESS than 1, otherwise, it will sink!