



SCIENCE OLYMPIAD
AT THE
UNIVERSITY OF FLORIDA

Northern Regional: January 19th, 2019

Density Lab B Answer Key

Name(s): _____

Team Name: _____

School Name: _____

Team Number: _____

Rank: _____

Score: _____

Density Lab Answer Key

- 1) D
- 2) A
- 3) B
- 4) B
- 5) C
- 6) B
- 7) A
- 8) B
- 9) A
- 10) A
- 11) The principle states that the buoyancy forces equals the weight of the water displaced by the body (partly or totally submerged).
- 12) 0.0911 M
- 13) 1.8 g/L
- 14) 1.2 mol/kg
- 15) 49.7 cubic inches
- 16) 0.002 m
- 17) Buoyancy the upward force exerted by any fluid upon a body placed in it.
- 18) 6.0m
- 19) $(4000/3)(\pi)$
- 20) Molality is unaffected by temperature.
- 21) Number Density= number of objects/ volume of space
- 22) Mass Density= mass/ volume