| Circle Recitation Time: W1:30 W2:30 H | I8:30 H9:30 H10:30 H12:30 H1:30 H2:30 |
|--|---------------------------------------|
| Name: | Partner(s): |
| Directions: Complete the following questions base of your work and explain all of your reasoning. Place | |
| Simulation #1: Fluids & Archimedes' Principle Which of the three situations (A, B, or C) is physical? Fully discuss why you think one simulation is physical realistic and why the other two simulations are not. | |
| | |
| | |
| | |
| | Physical Simulation Is |
| Simulation #2: Thermal Expansion Determine whether all of the metal bars are made of the same material. Show your calculations and fully explain your reasoning. | |
| | |
| | |
| | |
| | |

Answer =

Simulation #3: Thermal Expansion

| Two aluminum alloy bars (coefficient of thermal expansion of 25 x 10 ⁻⁶ 1/C ⁰) fit together snugly |
|---|
| until subject to a change in temperature as shown in the animation (position is in meters and time is |
| in days). |

Find that change in temperature. Show your calculations and fully explain your reasoning.

| Answer = | |
|----------|--|
| | |