

Lecture 40 Phys. 211 12/4/20

- ~ Record
- HW  $\Rightarrow$  due today
- Labs  $\Rightarrow$  turn in
- Final  $\Rightarrow$  12/11 @ 8-11
- Review  $\Rightarrow$  next weds from 5:30  $\rightarrow$  ?? zoom
- more asynchronous "class's/problem" videos coming

Today: <sup>14</sup> Fluids, pressure, buoyancy, continuity,  
Bernoulli's equation, Then: <sup>15</sup> Intro to  
oscillations, waves, SHM, <sup>16</sup> traveling  
waves  $\Rightarrow$  transverse & longitudinal

# Fluids

property that they flow in response to forces

liquids & gases are fluids

density  $\rho = \frac{m}{V}$  SI unit  $\frac{\text{kg}}{\text{m}^3}$

note:  $1 \text{ g/cm}^3 \approx 1000 \text{ kg/m}^3$