

Notes for Density

- **Density is the amount of mass a substance has in relation to its volume.**
 - **The volume for two different substances can be the same but the masses can be different giving them different densities.**
 - **Mass is determined by type of atoms & compactness of atoms**
- **To calculate density: $D = M/V$ Units: g/cm^3**
- **Density of pure water is $1 g/cm^3$**
 - **Substances with densities less than $1 g/cm^3$ will float**
 - **Substances with densities greater than $1g/cm^3$ will sink**
- **Saltwater is more dense than freshwater, making it easier to float in saltwater.**
- **Density can be used to help identify substances.**