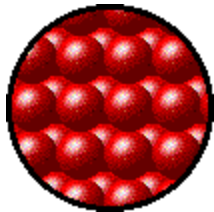
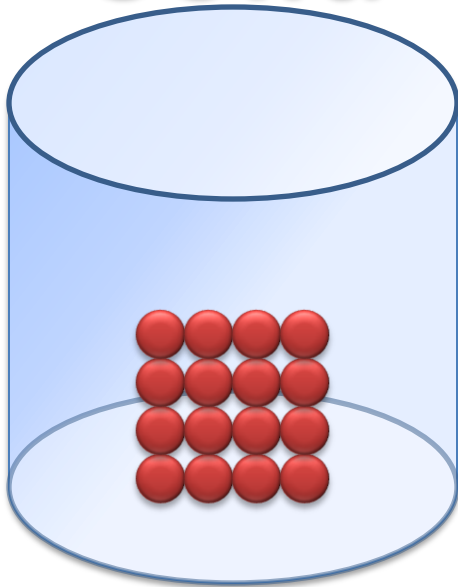


SOLID vs. LIQUID vs. GAS NOTES

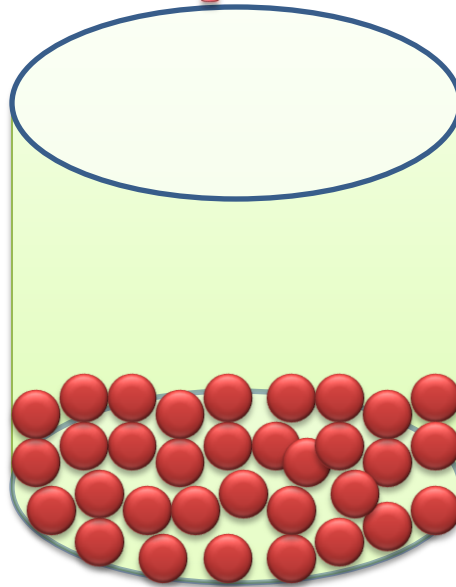
- Matter takes up space (volume) and has mass
- Atoms make up matter.
- Solid, Liquid or Gas phase are Physical Properties of matter.

ATOMS ARRANGEMENT

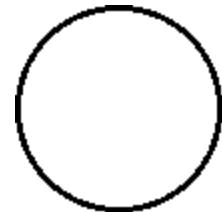
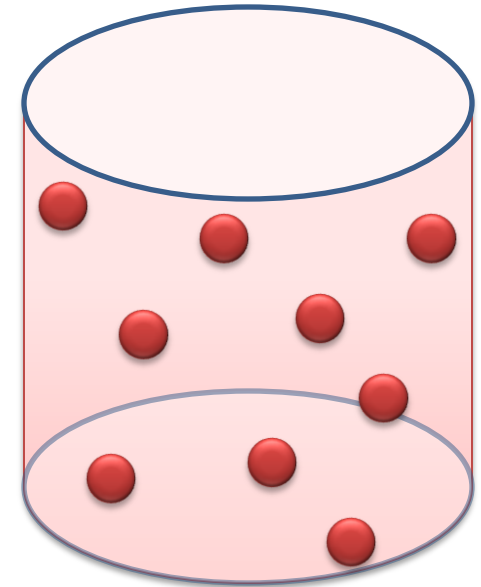
Solid



Liquid

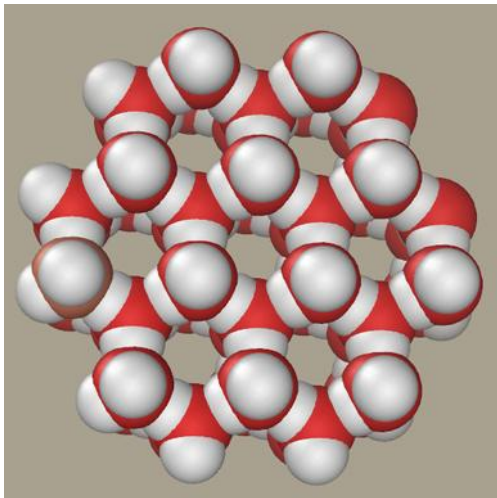


Gas

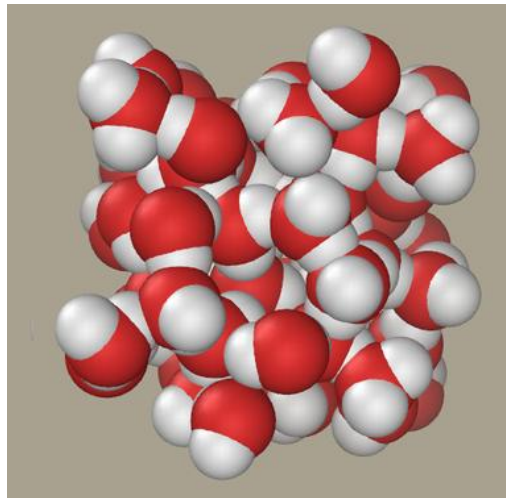


MOLECULAR STRUCTURE OF H₂O

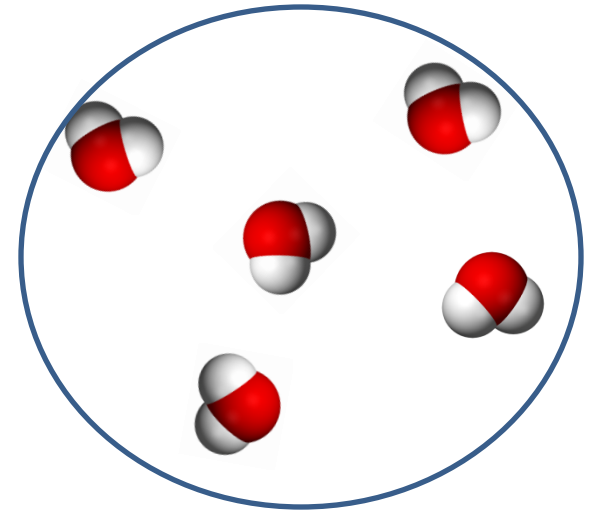
Solid



Liquid



Gas



CHARACTERISTICS OF EACH PHASE

PROPERTY	SOLID	LIQUID	GAS
SHAPE	Definite	Takes shape of container	Fills up entire container
VOLUME	Definite	Definite	Fills up entire container
ATOMS ARRANGMENT	Very close, stay in a fixed position	Close contact, free to move around	Spread apart, freely moving around
ABILITY TO FLOW	No	Yes (A FLUID)	Yes (A FLUID)
KE	Low	Moderate	High

SOLIDS - Can be found as **crystalline solids** or **amorphous solids**

- **Crystalline solid** – atoms are arranged in ordered, repeating pattern
(table salt (NaCl), sugar (C₆H₁₂O₆), and diamond (Carbon))
- **Amorphous solid** – atoms are not in ordered, repeating patterns (*without shape*)
(Gels, butter, mayonnaise, Oobleck, and glass*)