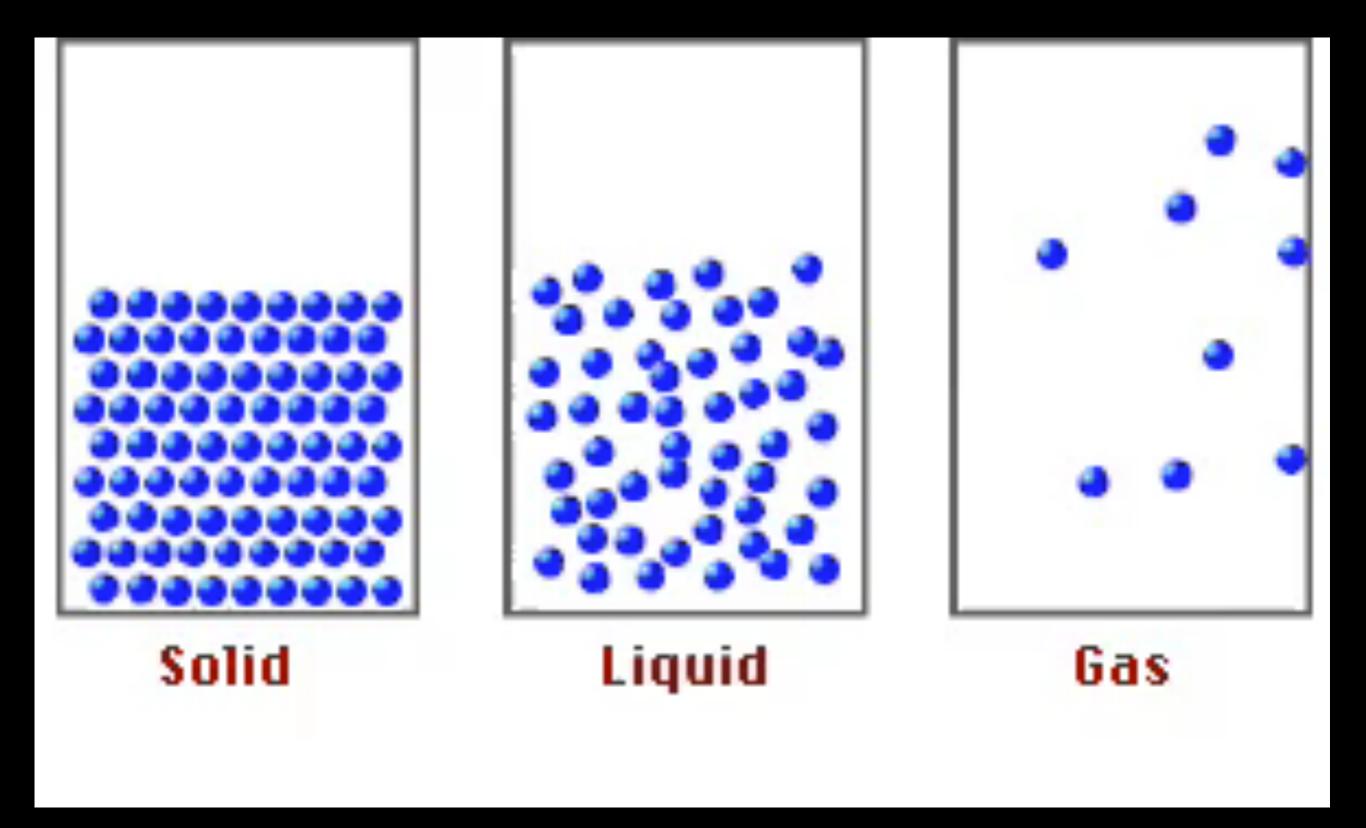
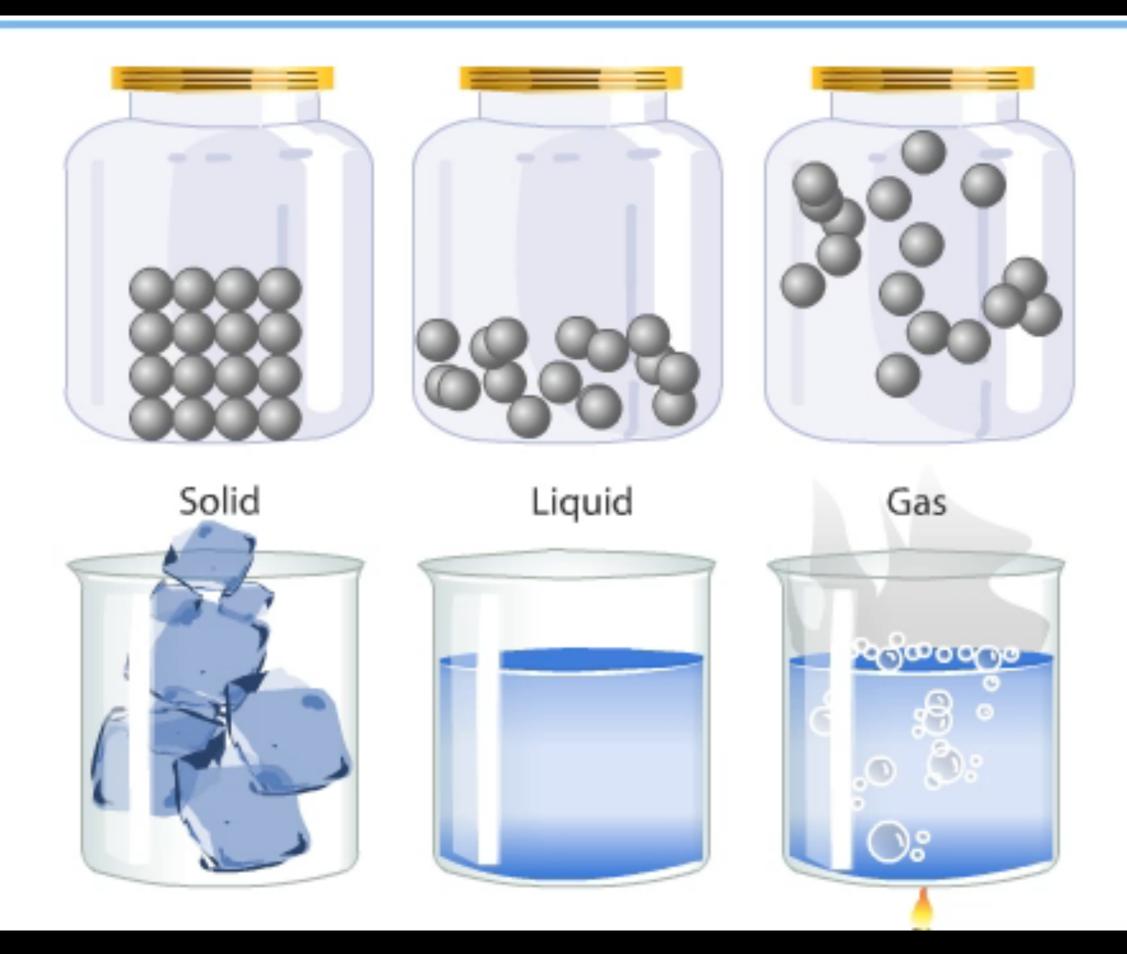
States of Matter



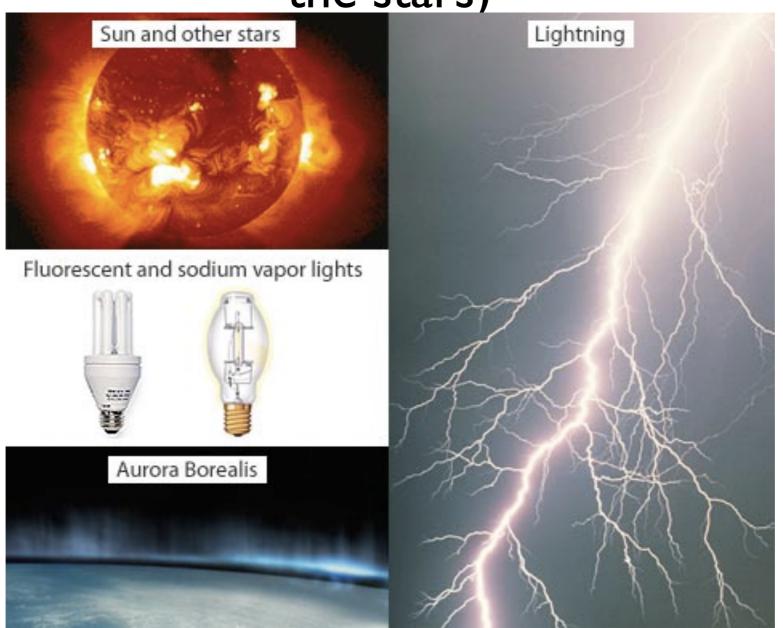


state of matter	volume	Shape	Particles
Gas	indefinite	indefinite	 particles move randomly and fast low attraction of particles fill container completely
Liquid	definite	indefinite	 particles can flow past each other medium attraction and speed take shape of container
Solid	definite	definite	 particles tightly bonded together, high attraction very slow vibrations

*definite = defined *indefinite = can change

Plasma

Plasma is another state of matter where a high energy gas has atoms that have lost their structure (rare on earth, common in the stars)



Energy and Changes in Matter

- Energy: The ability to do work
- Work: Force x Distance
- Energy is always involved in any physical or chemical change, often in the form of heat loss or gain

Endothermic reactions: Heat is absorbed

