



# Chemistry

Name: \_\_\_\_\_

Section \_\_\_\_\_ Characteristics of S, L, G WS Date: \_\_\_\_\_

For each characteristic, compare solids, liquids, and gases.

Characteristic	Solid	Liquid	Gas
Particle Motion (vibration or amount of energy)	Low KE vibrates in place	Higher KE can flow	Highest KE random motion
Strength of IMF (intermolecular forces between molecules)	Strong	Weaker	Almost none
Average distance between particles	Very close (touching)	Very close (touching)	Far apart
Amount of kinetic energy and potential energy	Mostly PE	Some PE Some KE	Mostly KE
Amount of entropy (randomness)	Lowest entropy	Higher entropy	Highest entropy
Amount of organization of the particles	Highly organized	Less organized	No organization
Relative rate of evaporation (high = easy)	Very low (not easy)	Low (easier to vaporize)	Very high (already vaporized)