Model of Matter - The Particulate Nature of Matter

Wha wo I are expected token by as core knowedge? To know the basis of this model To explin the 3 States of Meder using the arrange of parces Ise the nodel to explain , physical properties (e.g. shape, volume, density, compressibility) of the sstates expansion & contraction hange of states / phases transition (e.g. melting, poiling, condensation, freezing) Basic rcept: 1. Thatter has mass and quouby space 2. The state of a matter actermines its physical properties d I/remove heat -> Change of state / Phase propition 4. Teat is an energy Heat flows when there is a difference in temperature between 2 alons Then the 2 regions are in thermal equilibrium (e. same temperature), there is o NET heat flow____ Heat OLD **HOT** Flow • Evidence for the Particulate Nature of Matter 1. Diffai on Diffusin is the spontaneous rdom movement of the cles from a region higher concentration. Ite quilibrium, a uniform nexture is obtailed. No energy needed Example: Potassium promeganate Crystal + water, Biomine gas + air.