

# SOLUTIONS ,SUSPENSIONS AND COLLOIDS

**SOLUTION** (Liquid): Particles very small (0.1–1nm) ,do not settle out or scatter light,can't be separated by filtering, homogeneous mixture.

–Ex. salt water, Kool-ade, soda pop,

**COLLOID**: Particles larger (1–100 nm), do not settle out, do scatter light (Tyndall Effect),can't be separated by filtering, homogeneous mixture.

–EX. Jello, milk

**SUSPENSION**: Particles larger (>100 nm), will settle out, do scatter light, can be separated by filtering, heterogeneous mixture.

–EX. salad dressing, muddy water

nm= nanometer, 1 billionth of a meter ( $10^{-9}$ )