Matter Chart Matter Has mass and takes up space. Examples: not pure pure Pure Substance Mixture A substance that has A blend of two or more a fixed composition. Kinds of matter; each of which retains it own properties. Ex: see elements & compounds below. Ex: See Below Noruniform, You can see Uniform_Vou^{Cannot} Element Compound Heterogeneous Mixture Homogeneous Mixture A substance made from only A substance that is made A mixture with Uniform one kind of atom. composition throughout Composition throughout. from the atom of two Or more Elements that are Chemically bonded. Ex: H, C, D, Ca Ex. Salt water, 4001 Aid, etc Ex: salad, bird seed, etc. Ex: H20, H202, NaCl All types of mixtures can be separated by physical Cannot be separated in further. The Cannot be separated in further by means: sorting, filter, heating, cooling, distillation, simplest form of matter physical means. Can be separated

by a chemical change.

A mixture not having uniform

etc.

Solution: A mixture where the particles are so small they never settle out. Particle size between 0.1 and 1 nm.

Colloid: A mixture where the particles are intermediate and they never settle out. Particle size between 1 and 100 nm.

Suspension: A mixture where the particles are so large that they do settle out. Particle size >100 nm.