

ESL/ELD Stage 1+Stage 2: Grade 7 Science Strand 2: Pure Substances and Mixtures (Vol.1)

Mechanical Mixtures, Solutions and Pure Substances (page 2)

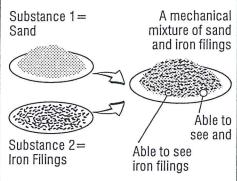


lixture

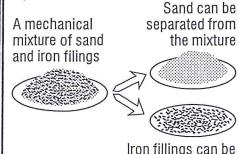
Matter is either a mixture or a pure substance. Matter is made up of tiny particles too small to see.

Mechanical Mixture

when two or more substances are mixed and are not physically changed a mechanical mixture is made:



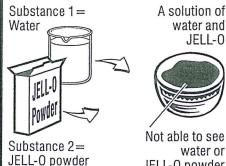
- if we are able to see each substance in the mixture, a mechanical mixture is made:
- if the substances in the mixture can be easily separated, a mechanical mixture is made.



Iron fillings can be separated from the mixture

Solution

when two or more substances are mixed and are physically changed a solution is made:



Not able to see water or JELL-O powder

water and

JELL-0

- if we are **not able to see each** substance in the mixture, a solution is made:
- · if the substances in the mixture cannot be easily separated, a solution is made.

Water cannot be separated from the solution

A solution of JELL-O powder and water



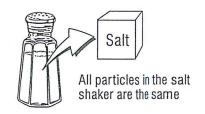


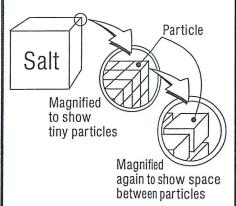


JELL-O powder cannot be separated from the solution

Pure Substance

a pure substance exists when all particles are the same;





pure substances, like salt, have only one kind of particle.