Mixture

Purpose
To make a heterogeneous mixture.

Materials
1 teaspoon (5 mL) unsweetened grape - flavored powdered drink mix
1 teaspoon (5 mL) sugar
1-pint (500-mL) resealable plastic bag
Spoon, Magnifying lens
Sheet of graph paper

Procedure
1. Put the powdered drink and sugar in the bag.
2. Shake the bag vigorously to thoroughly mix the powdered drink and sugar.
3. Pour one spoonful of the mixture in the bag onto the graph paper. Spread the material out as evenly as possible.
4. Use the magnifying lens to study the mixture covering four or more squares on the paper. Does the mixture in every part of each square has the same number of drink mix and sugar particles?

Results
The amount of sugar and powdered drink particles varies from one square to the next.

Why? One or more substances combined with another substance to form a mixture. Generally, when solid particles are mixed together, the particles do not evenly blend together, so the mixture is called a heterogeneous mixture (a mixture that is not the same throughout). In this experiment, the number of particles of powdered drink and sugar is not the same throughout, so the mixture is heterogeneous.