



Compounds and mixtures may be composed of two or more components. The component elements of a compound are chemically combined and cannot be easily separated through physical means. They may be separated by heating or by chemical reaction. On the other hand, the **components of a mixture can be separated by physical methods**. The most common separation methods used for heterogeneous mixtures are handpicking for solid mixtures which consist of large particles, filtration for fine insoluble solid particles in a liquid mixture, sedimentation and decantation for large insoluble particles in a liquid mixture, and distillation for homogeneous mixtures.

INSTRUCTIONS: Identify the separation technique that can be used to separate the components of the following mixtures.

Mixture	Separation Technique Used	Description of the Technique Used
cooking oil and vinegar		
salt and water		
flour, salt and water		
powdered iron and powdered pepper		
sand and water		
rubbing alcohol and water		