

Science ?

Mixtures

What is matter?

Matter is any material that occupies space and has mass.

→ includes all solids, liquids and gases.

These forms of matter have different characteristics.

Mixtures

When two or more substances are combined, a mixture is formed.

In a heterogeneous mixture, or a mechanical mixture, the substances are physically mixed but they can later be separated.

The mixture is not uniform in its composition.

Example: Italian Salad dressing

- mixture of olive oil, vinegar and spices

No matter how well you shake the bottle, the oil and vinegar will separate after a short time and the spices will settle to the bottom.

Homogeneous substances are completely uniform in their composition.

Example : Mayonnaise

Concrete Wall

Concrete is a mixture of gravel, sand, and powdered cement. The components are clearly visible, so the wall is an example of a **heterogeneous** material.

Steel Beam

Homogeneous material.

Heterogeneous → A mixture made up of parts that retain their own properties, even if the properties are not visible to the unaided eye.

Homogeneous → Has only one set of properties.

Properties - The characteristics of the material

- color
- odour
- density.