

COMPOSITION OF MATTER REVIEW

_____ → is made up of one or more substances which, in turn, consist of tiny particles called _____. E.g. water, wood, gold, diamonds, ...

There are **two types of matter**:

- * _____: contain only **one type** of component which cannot be separated in other substances. E.g. gold, water...
- * _____: contain **two or more pure substances**. E.g. sea water (=water + salt)...

Two types of mixtures:

All **mixtures** consists of **two or more pure substances**. There are **two types** of mixtures:

- _____: the different components can be distinguished. E.g. : soil (tierra, si lo miro veo que está formado por diferentes componentes)
- _____ **or solutions**: the different components **cannot** be distinguished. E.g. : sea water (agua de mar, si lo miro no distingo lo que es agua y lo que es sal)

Separation of mixtures:

Depending on the type of mixture, we can use different methods of separation:

- _____: to separate **solids** from **liquids** or **solids of different sizes** in heterogeneous mixtures. We can use sieves or filters. (tamices –parecido a un colador- o filtros)
- _____: to separate **solids** from **liquids** in homogeneous mixtures. Heating the mixture, the liquid evaporates and the solid remains. We can used to separate water and salt from seawater. (agua de mar)
- _____: to separate **liquids with different boiling points** in homogeneous mixtures. Heating the mixture, one of the liquids evaporates turning in gas. This gas is condensed back into liquid and we have the two liquids separated. (para hacer bebidas alcoholicas como el ron)
- _____: to separate **substances of different density** in heterogeneous mixtures. E.g. Oil and water. (lo dejamos reposar y separamos un líquido del otro).

11.- **Gold** is a mixture pure substance.

12.- **Water** is a mixture pure substance.

13.- **Soil** is a ... heterogeneous mixture homogeneous mixture.

14.- **Sea water** is a heterogeneous mixture homogeneous mixture.

15.- To separate **water** and **oil** we can use...

Decantation

Distillation

16.- To separate **two liquids that have different boiling points** we can use...

Decantation

Distillation

17.- To separate **two liquids from solids or solids with different sizes** we can use...

Filtration

Evaporation

18.- To separate **liquids from solids in homogeneous mixtures** we can use...

Filtration

Evaporation

19.- To make **alcoholic drinks** (beverages) usually used the ...

Evaporation

Distillation

20.- A mixture consists of one pure substance

True

False