Soil is a mixture of minerals (rocks), organic materials (alive or dead) and water.

Paint is a mixture of pigment (colour), binder (a “glue”) and solvent.(water and other chemicals)

Fertilisers are a mixture of compounds containing nitrogen, phosphorus and potassium. (NPK)

Milk is a mixture of saturated fats, proteins, calcium and vitamin C.

Chromatography is a physical method of separating liquids.

Evaporation is a physical method of separating dissolved solids from solutions.

Filtration is a physical method of separating solids from liquids.

Distillation is a physical method of separating liquids with different boiling points.

Magnets can be used to separate magnetic metals from non-magnetic metals.

Centrifugation is a physical method of separating liquids with different densities. (how much mass in a given volume)

Separating the different dyes from food colouring is an example of chromatography.

Separating crude oil into camping gas, petrol and diesel is an example of distillation.

Separating water from fruits and lettuce leaves in a salad spinner is an example of centrifugation.

Making salt crystals from salty water is an example of evaporation.

Removing soil from drinking water is an example of filtration.

Separating iron from aluminium cans is an example of using magnets.