



a WOW Lab

BLUEPRINT

Colourific

Glossary

fats - a group of compounds that are insoluble in water. Oils are a type of fat.

hydrophilic - having a strong affinity for water.

hydrophobic - having no affinity for water.

immiscible - substances incapable of being mixed together. Oil and water are an example of non-miscible substances.

micelle - a spherical aggregate in an aqueous solution, having a hydrophobic interior and a hydrophilic exterior.

miscible - capable of being mixed.

non-polar molecule - a molecule that shares its electrons equally and has ends that are equally charged. Oil is an example of a non-polar molecule.

polar molecule - a molecule that has separation of charge in its chemical bonds. One end of the molecule has a slight positive charge and the other end has a slight negative charge. Water is an example of a polar molecule.

surface tension - a measure of the cohesive energy between molecules in a liquid. The greater the surface tension of a liquid, the greater the inward pull on the surface molecules by the bulk molecules. The surface tension of milk is disrupted by soap but not water in the *Swirly Whirly Milk* activity.