

# Muck, Mess and Mixtures

## Solids and Liquids

Some materials can be solids or liquids.

A solid stays in one place and can be held. Some solids can be squashed, bent, twisted or stretched. Wood, metal, plastic, play dough and elastic are all solids

A liquid moves around easily and is difficult to hold in your hands. Liquids take the shape of the container in which they are held. Water, juice, milk washing up liquid and bubble bath are liquids.

### Freezing

Some materials freeze when they are cooled. Freezing changes a liquid into a solid. Water freezes at zero degrees Celsius (0°C)



### Melting

Some materials melt when they are heated. Melting changes a solid into a liquid. Chocolate melts when it is heated



## Mixtures

Mixtures are made by mixing different liquids and solids E.g. water, salt, flour and yeast are mixed to make bread dough.

- Solids can be mixed with solids. E.g. muesli is a mixture of oats, seeds and dried fruit



- Sometimes liquids don't mix with other liquids. E.g. oil does not mix with water



- Liquids can be mixed with liquids, E.g. cordial with water to make squash



- Solids can be mixed with liquids e.g. clay mixed with water makes clay slip



- Some solids dissolve when mixed with liquids. When a solid dissolves, it looks like it has disappeared, but it is still there.



# Bubbles

Bubbles are made when air is blown into a mixture of soap and water. A bubble is a ball, or sphere, of air surrounded by a thin layer of the soapy mixture. No matter what shape a bubble starts as, it will always end up as a sphere.

# Dangerous substances

Some substances, like bleach or kitchen cleaner, can be dangerous to touch or swallow. You should never touch these substances.

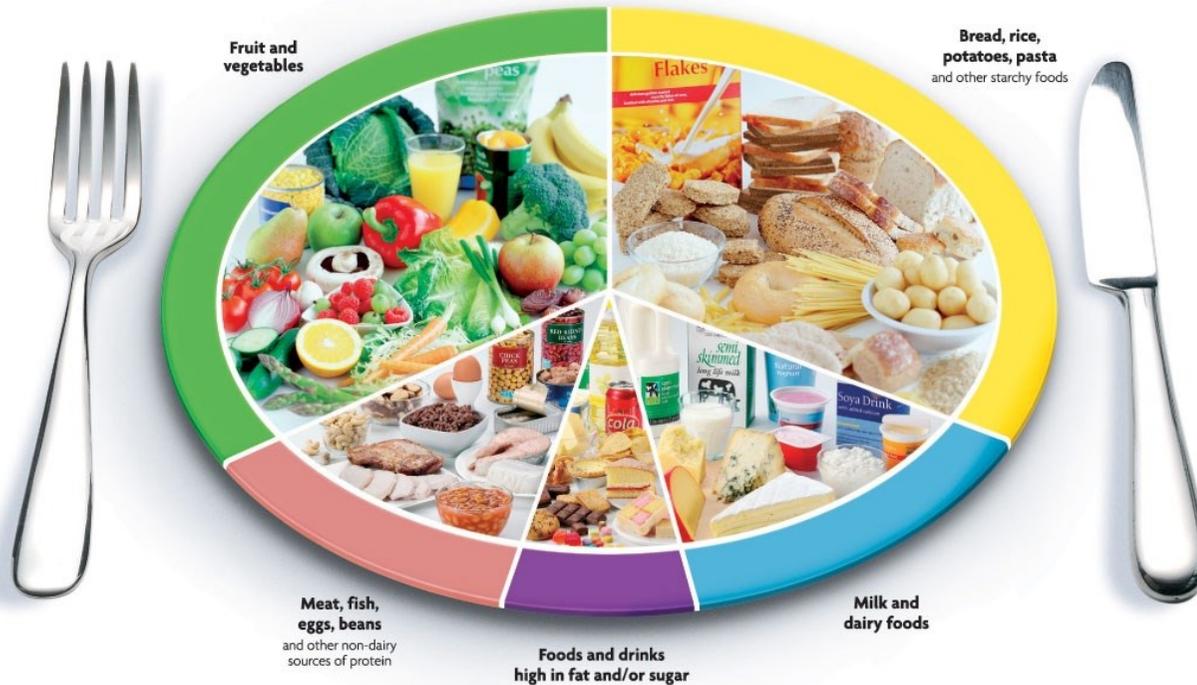
Medicines can also be harmful if they are not used properly. Medicines should always be kept in a safe place and children should only take medicines given to them by an adult.

Some substances have symbols to warn people that solids or liquids are dangerous



# The eatwell plate

Use the eatwell plate to help you get the balance right. It shows how much of what you eat should come from each food group.



## Glossary:

**Celsius:** A unit to measure temperature

**Diet:** The food and drink that a person or animal eats regularly

**Dissolve:** When a solid mixes with a liquid and can't be seen anymore.

**Float:** To stay on the surface of a liquid

**Freeze:** To change a liquid into a solid by cooling.

**Liquid:** Something that can be poured easily, takes the shape of its container and can't be held.

**Melt:** To change a solid into a liquid by heating.

**Mixture:** A substance made by mixing solids and liquids.

**Solid:** Something that stays in one place and can be held.

**Substance:** A solid, liquid, powder or gas of a particular kind

**Key Person:** Carl Warner

**Born:** 1963

Based in London

**Famous for:** creating food landscapes art where he uses different types of foods and ingredients . A lot of his work has been used in adverts.

