



Science Vertical Concepts

1. All materials in the universe is made of very small particles

Nursery

Exploring different materials and states in the environment (water, ice)

Year 1

Year 3

Year 5

When some materials combine, they do not change permanently and can be separated again.

Materials can be changed by heating and cooling

Year 7/KS3

The smallest piece of material is called an atom. All materials, anywhere in the universe, living and non-living, are made of a very large number of these basic 'building blocks' of which there are about 100 different kind

Reception

Describe states of change (ironing clothes/material, making toast, food)

Year 2

All the 'stuff' encountered in everyday life, including air, water and different kinds of solid substance is a material

Different materials are recognisable by their properties

Year 4

The amount of material does not change when a solid melts or a liquid evaporates

If a material could be divided into smaller and smaller pieces it would be found to made of pieces, particles, smaller than can be seen even with a microscope. These particles are not in a material; they are they material

Year 6

When some materials are combined, they form a new materials with different properties to the original materials.