What is a food scientist?

A food scientist designs and makes new food products. Food scientists change the state of foods by melting, freezing or baking. They work in lots of different workplaces, including:

- restaurants or kitchens
- universities
- government organisations
- specialist research associations.



Heston Blumenthal is a food scientist. He uses kitchen chemistry to cook food in new ways.

Key Learning and Science Skills:

- Be creative when designing, making and testing new foods.
- Set up practical enquiries when designing and making foods.
- ► Tell customers what you find out.



Solids, liquids and gases

What is a nanotechnologist?

A nanotechnologist finds ways to make materials at a very small scale. This is important for lots of jobs, such as:

- holography and optics technicians
- manufacturing engineers
- market development managers
- mechanical engineers
- optical engineers.



This is Steve Jobs. He used nanotechnology when he developed computer graphics.

Key Learning and Science Skills:

- Find ways to make materials at a very small scale.
- ▶ Measure using a range of scientific equipment.

What is a medicinal chemist?

Medicinal chemists mix chemicals in different states, such as gas, liquids and solids, to make medicines that treat illness and disease. Medicinal chemists work in different places, including:

- laboratories
- pharmacies
- hospitals.



This is Gunda Georg. She is a medicinal chemist at the University of Minnesota, US.

Key Learning and Science Skills:

- Setting up investigations to find medicines that will treat illness or disease.
- ▶ Observe carefully to investigate how the chemicals might treat illness or disease.

Would you like to use your learning about solids, liquids and gases when you are older?