# Science Year 3

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# **Know Your Nutrients**

Shakespeare **Primary School** and Nursery



How can our food choices keep our body and world healthy?

flower

stem

### Movement and nutrition for the human body

While plants can make all the food they need using water, air and sunlight, humans, like other animals, cannot. The different types of food we eat contain different nutrients. These are useful for our bodies in different ways.

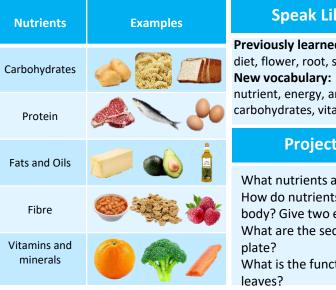
Carbohydrates give energy to the body which is used for movement and keeping warm.

Proteins are essential for healthy growth and repairing our muscles.

Fats and oils are used to provide energy and to keep us warm.

Fibre keeps our digestive system healthy. It helps to move the food we eat through our digestive system.

Vitamins and minerals keep our body healthy. Vitamin C, for example, is used to keep our gums, skin and joints healthy.



## **Speak Like a Scientist**

**Previously learned vocabulary:** diet, flower, root, stem, leaves

nutrient, energy, anchor, fat, proteins, carbohydrates, vitamins and minerals, fibre

### **Project Questions**

What nutrients are found in food? How do nutrients benefit the human body? Give two examples. What are the sections of the eat well

What is the function of a plant's



Dr Angie Burnett is a plant

biologists are interested in

understanding how plants

sees how they react to

grow.

biologist from England. Plant

work. Angie grows plants and

different conditions that make

it more difficult for them to

## Flowering plants and plant growth

Leaves capture sunlight. The energy from the sunlight is used to produce the plant's food. Leaves have tiny little holes in them which allow air into the plant. The energy from the sunlight is used to turn air and water into the plant's food.

Roots anchor the plant into the soil. Roots absorb water and minerals from the soil. This water is transported to the leaves and flowers via small tubes in the stem. The stem also provides support for the plant and holds the leaves and flowers up.

Plants which are able to get more sunlight, water and nutrients will grow faster and bigger than the others.

#### Working Like a Scientist and Working Scientifically

Scientists are able to identify parts of a flowering plant and measure the growth of the plant. They need to observe plants over time to see how they have grown. Scientists need to record their data in different ways and then share this with others, either through written explanations or scientific diagrams.

#### Careers: plant biologist, botanist, nutritionist

If you want to be a plant biologist scientist, you need...

- to be **patient** as plants can take a long time to grow!
- to be good at writing they write about what they've found out so other plant biologists can learn about it.
- to enjoy working with your hands as plant biologists are very practical and do hands-on experiments.



