

### What are we learning about?

In this topic we are going to look at cells: the building blocks of all living things. You, your pets, insects, plants: all are made of cells and all have certain things in common – and some differences! We will also learn about their structure and function.



### Why are we learning about it?

All living things are made of cells, and given that biology is the study of living things, this topic provides the foundation for everything else we learn about through your GCSE. It is also important to know about the structure of your own body and the things around you.



### What new **KNOWLEDGE** will I gain?

The structure of different types of cells and their role, how cells transport different substances around organisms, how to use a microscope and calculate magnification, uses of cells, diffusion and osmosis.



## Cells: Learning Journey

### How does this build on the **SKILLS** I already have?

Many of you will already use critical thinking in other subjects, so all you are doing here is applying that to a scientific context. You will also have used microscopes before, but not in this much detail.



### What new **SKILLS** will I develop?

As this your first Biology topic at GCSE, the most important skills will be developing your thinking to be more scientific, through your vocabulary and critical thinking. You will also learn how to use a microscope and calculate magnification.



### How does this build on the **KNOWLEDGE** I already have?

In KS3 you learnt about cells in Y7 and the human body in Y8. Both are linked directly to this topic, and in fact many of the lessons in this topic will lead straight on from facts and diagrams that you learnt in earlier years.