

## What is a Cell

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### **What is a cell?**

All living things are made up of \_\_\_\_\_. Each cell is a sort of bag made from a sort of skin called a \_\_\_\_\_. The inside of the cell is \_\_\_\_\_ and jelly-like. You can't see them just using your eyes. You need a \_\_\_\_\_.

A cell can be considered the smallest part of an \_\_\_\_\_ that can \_\_\_\_\_ on its own. Some organisms have only \_\_\_\_\_ cell, while more complicated organisms are made out of lots of cells. All cells have a \_\_\_\_\_, which separates them from the outside world. The membrane \_\_\_\_\_ the cell and allows the cell to be selective about what is allowed \_\_\_\_\_.

### **Are all cells the same?**

Plant cells are \_\_\_\_\_ than animal cells. Plant cells in a \_\_\_\_\_ are different to those in the stem or in the \_\_\_\_\_. Animal cells, including the cells in our bodies, are all sorts of different \_\_\_\_\_ and sizes. Different cells \_\_\_\_\_ different things.

Give examples of two different types of cells and their jobs below.

1. \_\_\_\_\_  
\_\_\_\_\_
2. \_\_\_\_\_  
\_\_\_\_\_

Despite all the differences between types of cells, there are also \_\_\_\_\_. All cells have \_\_\_\_\_. All cells contain \_\_\_\_\_ for storing information and \_\_\_\_\_ for building proteins.

### **Where do new cells come from?**

When the time is right, an animal cell or a plant cell \_\_\_\_\_ into two, forming new cells called \_\_\_\_\_ cells. The two new cells are \_\_\_\_\_ the same as the original cell. This process is called \_\_\_\_\_.

Although a cell is small, it is not stupid – before it \_\_\_\_\_ it makes an extra copy of everything in the \_\_\_\_\_. This means the two daughter cells have a \_\_\_\_\_ nucleus. This is important because the nucleus contains the “\_\_\_\_\_” (DNA) which is used to tell the cell what to do. They do share the \_\_\_\_\_ but they can make more of that and end up the same size as their \_\_\_\_\_ cell.

### **What is a single-celled animal?**

A single-celled animal is an animal cell that lives on its \_\_\_\_\_, without other cells. It can move around. It can get its own \_\_\_\_\_. It gets rid of \_\_\_\_\_. It divides to make more cells. It can tell something about what is happening around it. The single cells of a \_\_\_\_\_ animal could not do this. They need to live \_\_\_\_\_ by lots of other cells.

### **What is a single-celled plant?**

A single-celled plant, such as an \_\_\_\_\_, is a plant cell that lives on its \_\_\_\_\_. It does not need to be a part of a larger plant \_\_\_\_\_. Algae always live in \_\_\_\_\_.