Biology – Chapter 1

## The Organisation of Life – Where is my learning at? Can I do the following?

|  |  |  |  |
| --- | --- | --- | --- |
|  | Red | Orange  | Green |
| What is an organism? |  |  |  |
| List the seven characteristics of Living things |  |  |  |
| Describe each of the seven characteristics |  |  |  |
| Explain Respiration |  |  |  |
| Explain Photosynthesis |  |  |  |
| Look at an object and say if it is living or non living |  |  |  |
| Know that organisms are made of cells |  |  |  |
| Cells are viewed using a microscope |  |  |  |
| Label the microscope |  |  |  |
| Give the functions of the parts of the microscope |  |  |  |
| Calculate the magnification depending on what objective lens is in position |  |  |  |
| Calculate the magnification of the microscope if the objective lens is 4X and the eyepiece lens is 10X  |  |  |  |
| Describe in detail how you would prepare and examine onion cells  |  |  |  |
| What stain do you use to stain plant cells?  |  |  |  |
| Why do you use a cover slip?  |  |  |  |
| Describe how you put a cover slip on a slide |  |  |  |
| Draw and label and plant cell |  |  |  |
| Draw and label an animal cell |  |  |  |
| Which one of these is a plant cell and which is an animal cell? |  |  |  |
|  | Red | Orange  | Green |
| What is an electron microscope? |  |  |  |
| How is an electron microscope different from a light microscope? |  |  |  |
| What is a micrograph? |  |  |  |
| Explain how living things are organised (cells, tissues, organs, systems) |  |  |  |
| Say what the following terms mean (Define them):OrganelleCellTissueOrganSystemOrganismPopulationCommunityEcosystemEcology |  |  |  |

**Key Words for this topic**

(*A key word is a word which you must be able to explain (give a definition of), use in a sentence, understand what it means when it is used in a question and if it is part of a diagram you need to be able to draw or label it.)*

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| --- | --- | --- | --- |
| Organism | Characteristic | Nutrition | Respiration |
| Excretion | Growth | Reproduction | Movement  |
| Response | Sensitivity | Organisation | Tissue |
| Organ | System | Population | Community |
| Ecosystem | Ecology | Microscope | Micrograph |