****NATURAL SCIENCE 6th grade – Unit 3 : LIVING THINGS (I).

**MICROSCOPES** are instruments to see things that are too small for our eyes to see.

**OBJECTIVE**

**LENSES**

**EYEPIECE**

A sample is a small piece of the material that you want to look at.

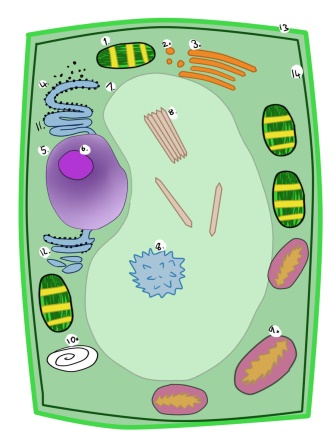
**CELLS:**

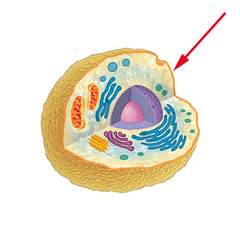
All living things are made up of tiny things called cells. Cells are living things and they carry out the three life processes: nutrition, sensitivity and reproduction.

**SLIDE**

Animals and plants have a similar structure:

**STAGE**

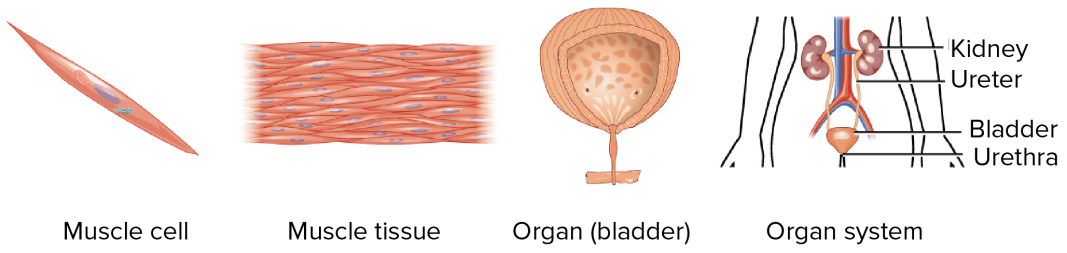
* **Nucleus**: controls what happens in the cells. Genetic information is stored here.
* **Organelles** are the organs of the cells.
* **Cytoplasm**: a jelly-like liquid inside the cell.
* **Membrane**: is the skin of the cell.

**Animal cells:** are smaller and usually have an irregular shape.

**Plant cells:** are bigger and usually have a regular shape. **Chloroplasts** allow plants to produce their own food through photosynthesis.

**UNICELLULAR OR MULTICELLULAR:**

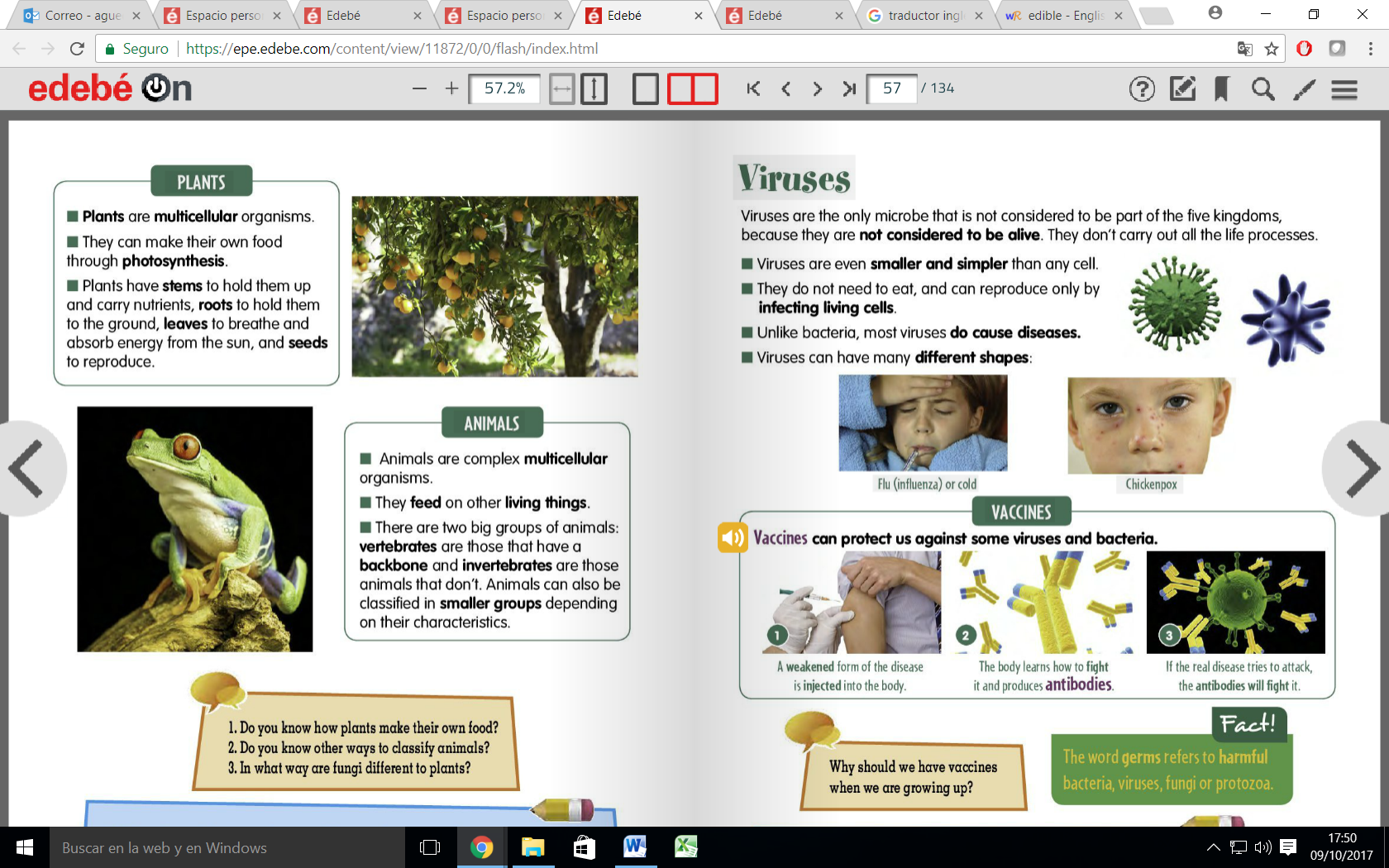
**Unicellular**: have one cell. Like Microbes. **Multicellular**: are made up of many different kinds of cells. Organisation:

**CELL TISSUE ORGAN SYSTEM**

**THE FIVE KINGDOMS:**

Animals and plants are living organisms. But there are other life forms:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **MONERA** | **PROTISTS** | **FUNGI** | **PLANTS** | **ANIMALS** |
| **K**  **I**  **N**  **G**  **D**  **O**  **M** | Resultado de imagen de moneraBacteria | Resultado de imagen de protozooProtozoa | Yeast  Resultado de imagen de yeast | Plants have **stems**, **roots**, **leaves** and **seeds**  Resultado de imagen de plants parts | Invertebrates    Vertebrates |
| Algae  Resultado de imagen de algae | Mould  Resultado de imagen de mould |
| Mushrooms  Resultado de imagen |
| **ORGANI**  **SATION** | Unicellular | Unicellular and multicellular | Unicellular and multicellular | Multicellular | Multicellular |
| **N**  **U**  **T**  **R**  **I**  **T**  **I**  **O**  **N** | They feed on **organic matter** (heterótrofas) | **Protozoa:**feed on **organic matter** (heterótrofas).  **Algae:** can make their own food  (autótrofas). | They feed on dead organic matter. (heterótrofas) | They can make their own food through **photosynthesis**. (autótrofas). | They feed on other living things. (heterótrofos) |



**VIRUSES:** are **microbes**, which are **not considered to be alive**. Viruses are **smaller and simpler** than any cell.

They can reproduce by **infecting living cells**.

Most viruses **cause diseases**. Virus can have many **different shapes**.