

**TAKEAWAYS :**

- **the macroscopic (level ) observation**

*The macroscopic level observation is made with the five senses.*

- **the microscopic (level )observation**

*The microscopic observation requires to use tools.*

- **a microscope**

*A microscope is a tool that magnifies small objects that can't be seen by **the naked eye**.*

*Scientists observe specimen with a microscope.*

- **the control units of the microscope include :**
  - fine and coarse adjustment knobs,
  - diopter adjustment and the stage control knob,
  - brightness adjustment etc.

- **coarse and fine knobs**

*When in operation the objective lenses are manipulated by the coarse and fine knobs at 4x and 10-40x objectives respectfully.*

- **the arm and base of a microscope**

*One should hold a microscope by the arm and/or base .*

- **a specimen slide**

*We put a specimen slide onto the stage .*

- **a piece of technology**

*Microscopes are expensive pieces of technology*

- **Taxonomic rank :**

- life
- domain
- kingdom
- phylum
- class
- order
- family
- genus
- species / spēshēz/ , / spēshiz /

- **a beaker (in a lab)**

*- Please , measure 200 ml of the mixture in the beaker and bring it over here .*