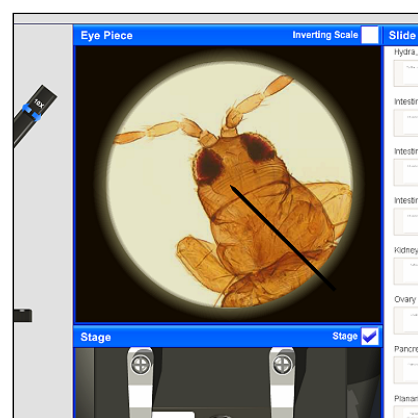


Virtual Microscope



Virtual Microscope

The Virtual Microscope has been specifically designed to provide an easy to use simulation of a typical optical microscope. It allows teachers and students to perform the following operations in exactly the same way as they would if using a real scientific microscope:

- Remove any existing slide.
- Select a slide from either a list of prepared slides, blank slides, or a calibration slide.
- If necessary, lower stage so there is sufficient room to secure a new slide onto stage using clips.
- Ensure appropriate illumination of the subject (turn on/off and set aperture).
- Choose between low, mid and high magnification lenses – 40X, 100X, 400X. (Achieved using 10X eye piece with either 4X, 10X, or 40X objective lenses.)
- Adjust slide position (to see different parts of specimen) and focus (coarse and fine controls) for each magnification lens.
- Observe collision between lens and stage if the lens is rotated and stage is too high.
- Observe slide damage if highest magnification lens is used and the stage is forced against lens.

- Determine the calibration factor using an eye piece micrometer and slide micrometer.
- Measure specimens using the eye piece micrometer.

A series of tutorials are included to demonstrate the following:

- Parts of a Microscope
- Viewing a Specimen
- Setting the End Stop
- Measuring with a Microscope
- Calibrating a Microscope
- Preparing Slides (Onion skin, Human cheek cells, Pollen).

Pre-Prepared Slides Include:

- Tilia (Basswood)
- Daphnia (crustacean)
- Hair (human, cat, sheep)
- Hydra (plain)
- Lichen (Foliose)
- Lily anther
- Lily anther (showing pollen)
- Lily ovary
- Mushroom
- *Rhizopus nigricans* (bread mold)
- Thrip (insect)
- Yeast
- *Zea mays* (corn) stem
- Indian rubber tree (leaf)
- Pollen (5 types)
- Cork

Continued:

- Testis
- Ovary (mammal)
- Intestine 1, 2, 3
- Kidney
- Pancreas
- Blood smear (frog)
- Letter 'e' (reference)

Student-Prepared Slides include: (demonstration of preparation)

- Onion skin (with stain)
- Human cheek cells (with stain)
- Pollen

Additional prepared specimen slides will be available to add to the virtual microscope as they are developed.

Order as:

VMS1 Virtual Microscope Single User License

VMS1/SL Virtual Microscope Site License



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