

The Virtual Biology Laboratory

Demo One

The Virtual Biology Laboratory

- Student/Teacher Profiles
- Laboratory Selection
- Supporting Materials
- Functional Gradebook

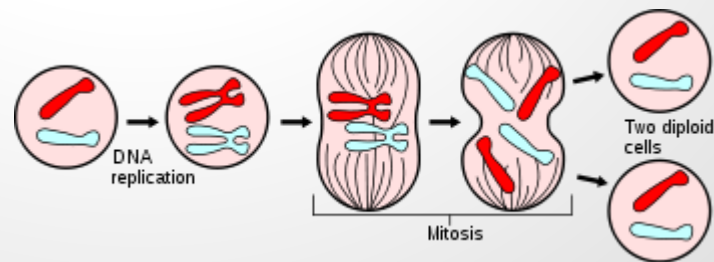
Design Details and Challenges

- Detail of content
- Remove mundane complexities
- Preserve Difficulty of Material
- Simplistic and Intuitive interface
- Allow for errors

Laboratory One: Cell Division

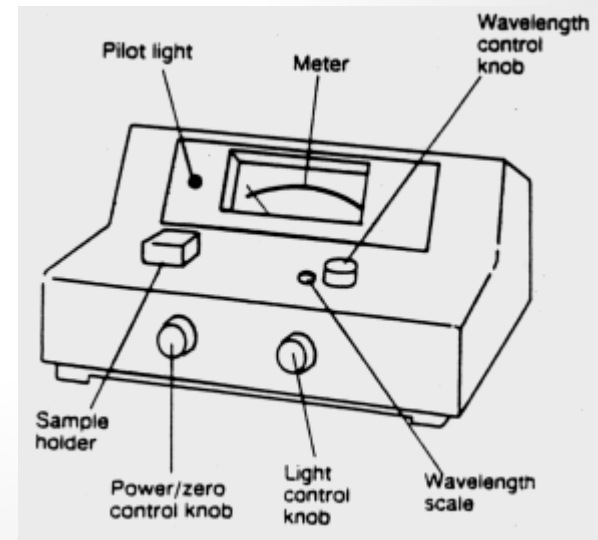
- Prepare a slide of an onion root tip
- Use a Microscope to view slide
- Difference between Plant and Animal Cells
- Five stages of nuclear division known as

Mitosis



Laboratory Two: Biology Molecules

- Calibrate the Spectronic 20 Spectrophotometer
- Use the Spec 20 to find Absorbance
- Run Urinalysis



Plan of Work

- Complete implementation of Laboratory Two
- Implement Laboratories Three and Four
- Divide Laboratories into subsections
- Create Quizzes for each Experiment
- Add more gradebook features