



<http://www.senari.com>

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Introduction to Microbiology CD-ROM

The study of Microbiology is a hands-on project. Dr. Rosemary Chacko has helped us prepare the activities and tools on this disk to provide you and your students with tools that will help in this study.

Beginning with the microscope, the names of the parts and their descriptions and functions are presented in both print and interactive formats. While using the printed study unit and diagram materials for the microscope, you and your students should practice with an actual microscope. The interactive formats of these activities have 2 variations. In the Learning Lab version, the student may use the "Show Me" button to see the answer and descriptions, while the Test version allows parents/teachers to assess students' mastery and understanding of the concepts.

After the students are comfortable with the use of the microscope, the other study units and diagrams are useful to help the students understand the basic organelles and structures of the plant cell, the animal cell, the euglena, paramecium, amoeba, and bacteria. This enables them to focus on the things they will see when they use the microscope.

The study units provide writing exercises that enable the student to describe the organisms: compare, contrast and delineate the various functional similarities and differences. Then, the student can use the manipulatives to create "games" for siblings or for test preparation, enabling the "see one – do one – teach one" method that reinforces learning by involving more than just the keyboard. Tutorials showing how to make and use Senari's study units are included on the CD.

For students above the primary level, the diagram activities provide a more general overview of the concept being studied. The student is asked to label the parts on the diagram and/or match the descriptions and labels.

Use Internet resources to get more information about specimens and which ones you may find in your area. Although commercial specimens are available, students often find it more interesting to find them in their back yard or in a park.

Rosemary Chacko MD FACP FAHQ is a practicing physician in San Antonio, Texas. She and her husband both work part-time and share in the homeschooling their children. Mrs. Micki Fitzpatrick and Dr. Chacko have been working collaboratively for the last 12 years, developing tools and programs to assist students learn independently, while developing strategies and skills that will be useful to them when they are adults. For this reason, many of our "students" are already adults – teachers, homeschooling parents, and nurses!



CD-Rom Table of Contents

Study Units Folder:

- PowerPoint presentations: *Using Study Units* and *Making a Study Unit*.
- List of Study Units

su_amoeba.pdf	The Amoeba
su_animal_cell.pdf	The Animal Cell
su_bacteria.pdf	Bacteria
su_euglena.pdf	The Euglena
su_paramecium.pdf	The Paramecium
su_plant_cell.pdf	The Plant Cell
su_microscope.pdf	The Microscope

Diagrams Folder:

- List of Diagrams

cb_amoeba.pdf	The Amoeba
cb_animal_cell.pdf	The Animal Cell
cb_bacteria.pdf	Bacteria
cb_euglena.pdf	The Euglena
cb_paramecium.pdf	The Paramecium
cb_plant_cell.pdf	The Plant Cell
cb_microscope.pdf	The Microscope

Interactive Programs Folders:

Topic	Flash Card		Diagram	
	Learning Lab	Test	Learning Lab	Test
Microscope	X	X	X	X
Animal Cell	X	X	X	X
Plant Cell	X	X	X	X
Bacteria	X	X	X	X
Euglena			X	X
Amoeba			X	X
Euglena, Amoeba, and Paramecium	X	X		