

List of Changes



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Laboratory Manual for Essentials of Biology 6th Edition Sylvia Mader

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Pre-Lab Questions

Each lab now contains a set of pre-lab questions designed to familiarize students with the lab before coming to class. The pre-lab questions are presented at the beginning of each section in the lab and include questions about the lab's purpose, procedure, and concepts. Students will need to carefully read each section to answer the questions.

Labeling Activities

Many images and diagrams have been converted to labeling exercises where students are asked to fill in missing labels with the help of their textbooks.

Lab 1 Scientific Method The section on the scientific method has been reformatted to be clearer and more comprehensive with additional explanation about its purpose and importance. Students are now encouraged to write more open-ended responses when describing their observations of pillbug motion.

Lab 2 Measuring with Metric An improved activity for measuring volume has been added.

Lab 3 Microscopy The introductory discussion of microscopes has been reduced in length as much of the information is covered in textbooks. Because it is also included in Lab 13, the Euglena observation was removed. In addition, a figure was added to help identify organisms in pond water.

Labs 8 Meiosis: Sexual Reproduction An activity to observe meiosis in lily anthers and an activity to relate meiosis to the human life cycle were added to this lab. Also, comparisons between mitosis and meiosis are discussed in more detail.

Lab 12 Evidences of Evolution The human evolution figure has been updated based on new evidence.

Lab 17 Invertebrates An updated figure of animal evolution was added.