How to Begin

Click here to begin the Daphnia MiniLab

Click the Squid icon to begin exploring invertebrates in the recommended sequence

Click the Earthworm icon to begin exploring invertebrates in the recommended sequence

Click any of these icons to begin exploring other invertebrates

Click here to compare the features of the invertebrates

Click here to survey characteristics of the earthworm

Click here to navigate through the program

Click here to set preferences

Click here to exit the lesson

Squid Dissection
The external and two internal views of the squid are explored.

Earthworm Dissection
A look at ventral, cross-section, and internal views of the earthworm.

Crayfish Dissection
Dorsal, ventral, and internal views of the crayfish are investigate.

Sea Star Dissection
The aboral, oral, and internal views are explored.

Survey of Invertebrates
The characteristics of twenty-one groups of invertebrates are compared.

Invertebrate Comparisons
All major systems of the four invertebrates are compared.

Daphnia MiniLab
Determine the effects of various drugs on the heart rate in Daphnia.

Completing the Guided Dissection

As you complete each invertebrate view, eMind Invertebrate enables you to review topics and test your knowledge with the system quizzes.

1. Click the Squid button on the main screen.
2. Complete the module by clicking the specified parts of the squid. When you finish, the program gives you the option to continue or review.
3. If you are ready for the External Squid Quiz, click Continue, or click a squid part on the screen to review its function.
4. Click Continue and complete the quiz as directed by the software.
5. Click Repeat to take the quiz over, or click OK and then Next to continue to another module in the dissection. Some modules ask you to click specified parts of the squid, while others ask you to drag specified organs to and from their proper locations in the invertebrate’s body.
6. When you complete this sequence in all four animals, and the Comparisons screen, eMind Invertebrate gives you the option of completing the comprehensive Invertebrate Test, or reviewing other modules before continuing into the test.

Setting Preferences

Press the Preference button on the Home screen to display the Preferences dialog box.

Click a button to be quizzed by organ, name, their descriptions, or both

Sets the speaking rate when text is read.

Enable roll-over speaking of images and other accessibility enhancements.

Sets the number of incorrect placements of organs accepted during a quiz
**Examining the External Views**

- Squid External, Earthworm Ventral, Earthworm Cross-section, Crayfish Dorsal, Crayfish Ventral, Sea Star Aboral, Sea Star Oral

**Internal Features**

- Squid Shallow, Squid Deep, Earthworm, Crayfish, Sea Star

**Comparing Invertebrate Systems**

- Phylum, Digestive, Respiratory, Reproductive, Nervous, Circulatory, Skeletal, and Excretory Systems

**Using the Media Window**

Look for the media icons in the lower corner of each dissection screen to flash. Click any flashing icon to see a media window that includes pictures or movies of the indicated invertebrate part.

- Click here to view a picture
- Click here to view a movie
**SURVEY OF COMMON INVERTEBRATES**

Cycle through the different groups of invertebrates

View the characteristics of the phylum and systems of the selected invertebrate

**DOING THE MINILABS**

Gathering Data

Click here to pick up the indicated substance

Click the eyedropper here to deposit a substance

Click here to start and stop the timer

Type your findings in these fields

Drawing Conclusions

Drag these sliders to graph the correct data values

The data you gathered on the previous screen appears here

Complete your analysis by answering these questions

Print your lab report here