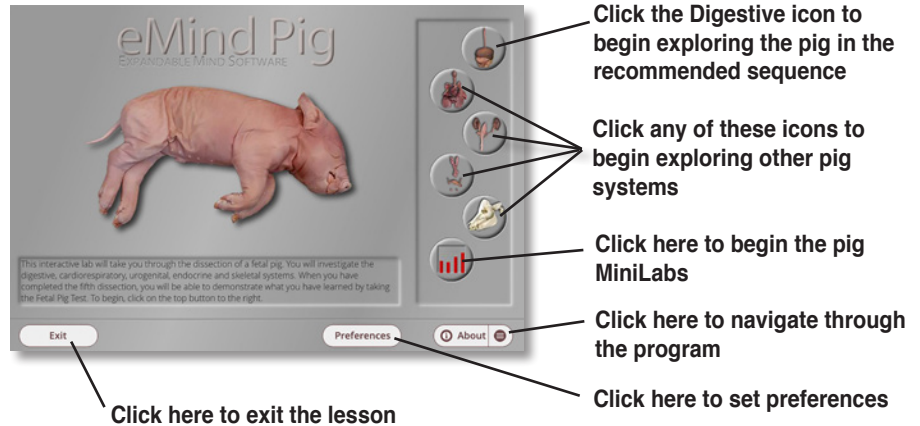








GETTING STARTED WITH eMind PIG

How to Begin



Exploring Fetal Pig Systems

eMind Pig includes dissection modules and interactive extensions for each of five main pig systems. You can click the icons or use the Systems and Extensions menus to visit each section of the dissection.

-  **Digestive System**
The pig's internal organs for processing food.
-  **Respiratory System**
The pig's internal organs for breathing and circulation.
-  **Urogenital System**
The pig's sexual and excretory organs and systems.
-  **Endocrine System**
Glands that secrete substances that support pig physiology.
-  **Skeletal System**
A Bone Yard that you can use to assemble a pig skeleton.
-  **MiniLabs**
Investigate, graph and report on mammalian respiration and heart rate.

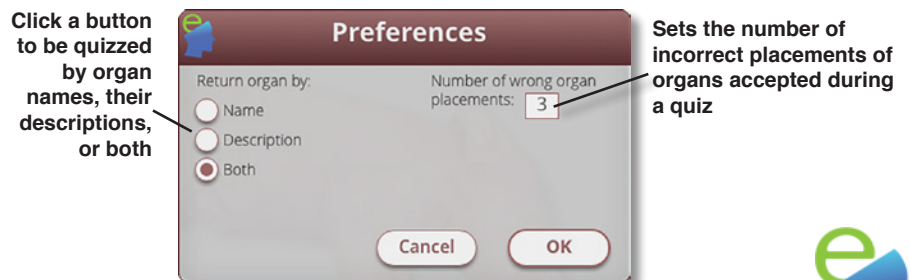
Completing the Guided Dissection

As you complete each pig system, *eMind Pig* enables you to review topics and test your knowledge with the system quizzes.

1. Click the **Digestive** button on the main screen.
2. Complete the module by dragging each organ to its correct location on the dissection tray.
3. Click **Continue**. Click on any removed organs to review its function. Click **Continue** again when you are ready to for the quiz.
4. Complete the quiz by dragging the specified organs from the dissection chart to their correct locations in the pig.
5. Click **Repeat** to repeat the dissection, or click **OK** and then **Next** to continue to another module of the dissection.
6. Complete the extension as directed by the software and click close button.
7. When you have completed all five modules, *eMind Pig* gives you the option to complete the comprehensive Pig Test, or repeat any module.

Setting Preferences

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



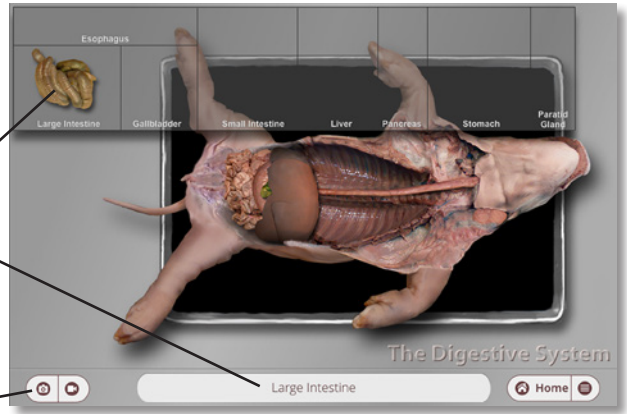
DISSECTING THE PIG

Dissecting the Internal Organs Digestive, Respiratory, Urogenital and Endocrine Systems

Drag each organ to the correct location on this dissection tray

The name of any organ to which you point appears here

Click flashing media icons to view pictures or movies

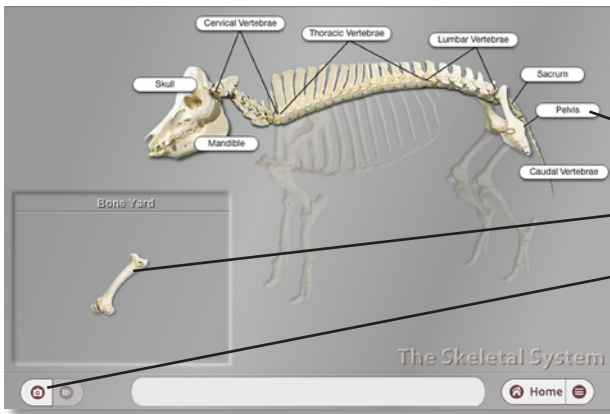


Rebuilding the Skeleton Skeletal System

When you correctly place a bone, a label with its name appears

Drag bones from here to their correct locations in the pig skeleton

The Bone Yard media windows display the human equivalent for each pig bone



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 pig part.

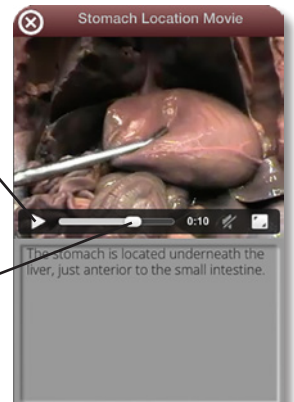


Click here to view a picture

Click here to view a movie

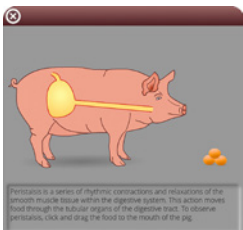
Click here to start or stop a movie

Drag this slider to advance or rewind a movie

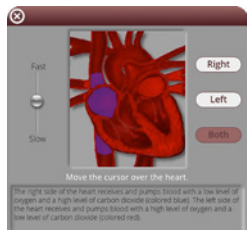


Dissection Extensions: Peristalsis, Heart Circulation, Nephron Function, Hormones, and Muscles

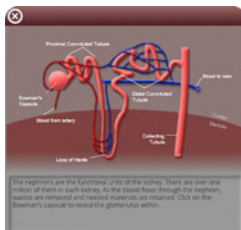
After you complete each pig system, eMind Pig takes you to a dissection extension that allows you to observe a pig physiological process.



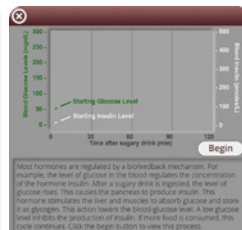
Peristalsis is the muscular process by which the pig moves food through its esophagus



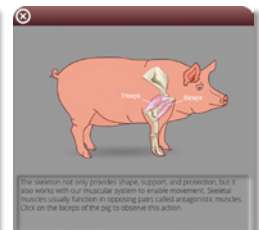
The heart pumps carbon dioxide-laden and oxygenated blood through its four chambers



The nephron process in the kidneys filters wastes from the bloodstream



Insulin counterbalances the presence of sugar in the blood



The pig extends and retracts its limbs through the action of antagonistic muscle pairs

DOING THE MINILABS

Gathering Data

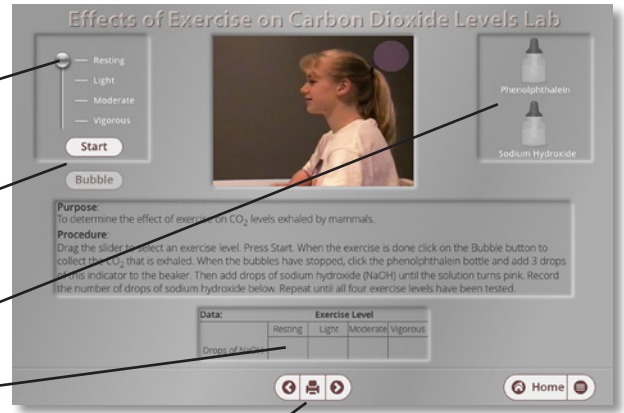
Drag slider to set levels of exercise intensity

Click these buttons to initiate each phase of the experiment

Click these droppers to complete the experiment

Record your findings in these fields

Use these buttons to print the current MiniLab screen or move to the next and previous screen

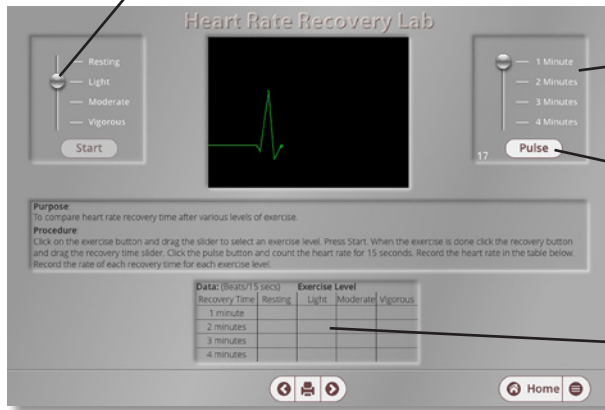


Drag sliders to set levels of exercise intensity

Use this panel to select other experimental variables

Click these buttons to initiate each subsequent phase of the experiment

Record 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

Click on the color coded shape to select the variable to graph

Complete your analysis by answering these questions

