

HUMAN BODY MODULE

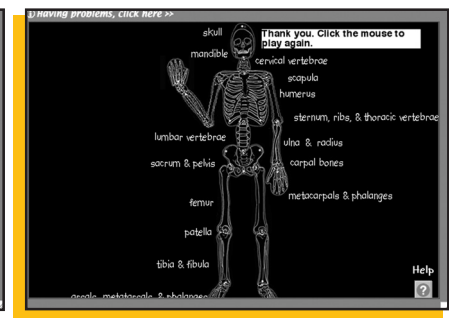
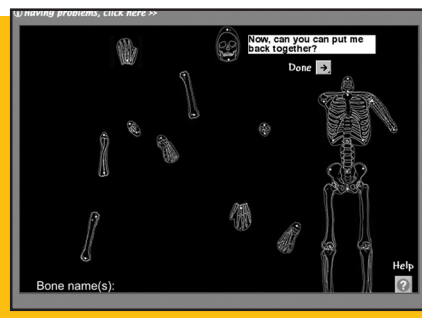
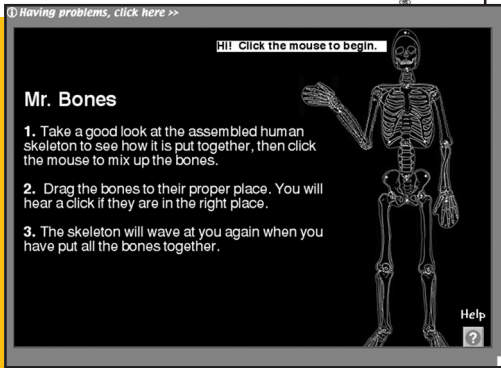
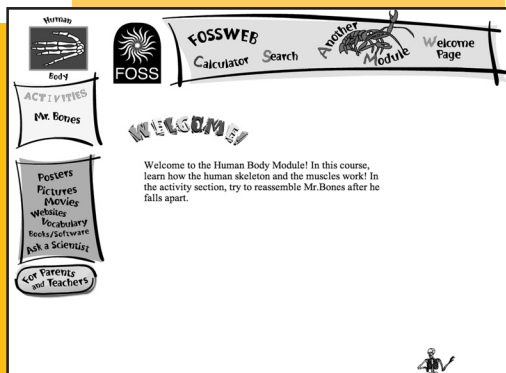
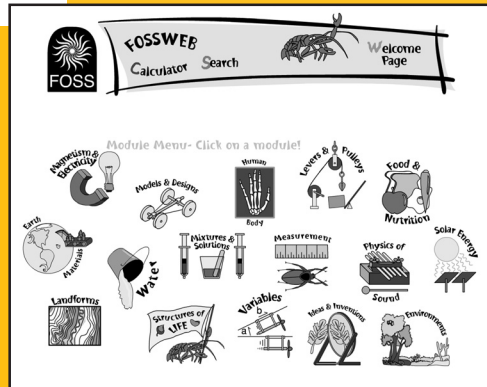
On the Welcome page, click Preview under the grades 3–6 flag to see a brief overview of the 3–6 site.

Click the grades 3–6 icon to get a menu that links to each of the 3–6 modules. There you can choose Human Body and travel to a wealth of information and activities specific to that module for students, parents, and teachers. The section for students has an interactive activity, project posters, pictures, movies, websites, a vocabulary list, a list of books and software, and an “Ask a Scientist” section. Parents and teachers can go to a module summary, a link to home/school connections, resources, and tips and tricks for using FOSS in the classroom.

If possible, introduce FOSSweb to students using a computer connected to a large monitor or digital projector. After a group introduction, move students to the computer lab or to computer stations in your classroom. Students in grades 3–6 need to have a focus when they begin exploring FOSSweb on their own or in small groups. Consider using some of the following questions and ideas to get them started. You can allow more free exploration once students have learned how to use FOSSweb and have completed some introductory assignments.

In Human Body, you’ll find an activity called Mr. Bones. Introduce this activity after students have completed Investigation 1, *Bones*. Students are challenged to assemble a virtual version of the same Mr. Bones they put together in Investigation 1. You might ask,

- *What is the function of the skeleton?*
- *How many bones are there in the human skeleton?*
- *How were you able to tell the difference between the bones when you assembled the Mr. Bones skeleton?*



If necessary, review the paper versions of Mr. Bones as well as the various skeleton posters. At the computer, show students how to use the mouse to click and drag the bones to the appropriate locations. When they move a bone to the correct location, they will hear a click. Point out the labels that appear when you click on the different bones. Show them the ? button at the lower-right corner. Here they can connect to some helpful hints and other challenges. Show students how to start with the rib cage bones positioned just to the right of center. Don't assemble the skeleton as a class, but have students move to a computer to try the game on their own.

In Posters, students can view summaries of investigations and posters created by students for the end-of-module project. Students can also submit their own project posters to share with other FOSS learners.

In Pictures, students can view X-ray images of bones, including a foot, hand, and forearm. You can use these images to begin a discussion of how doctors use X rays to find out more about the skeleton and what other techniques they use to image the inside of the body (e.g. MRIs, CT scans). Students may want to do further research on the skeleton, such as finding other images of the human skeleton, as well as other animals for comparison.

Movies show other imaging techniques, such as sonography and magnetic resonance imaging (MRI). Have students compare these images to one another and to the X-ray images in the Pictures section and discuss what information these images provide that you don't see in an X ray.

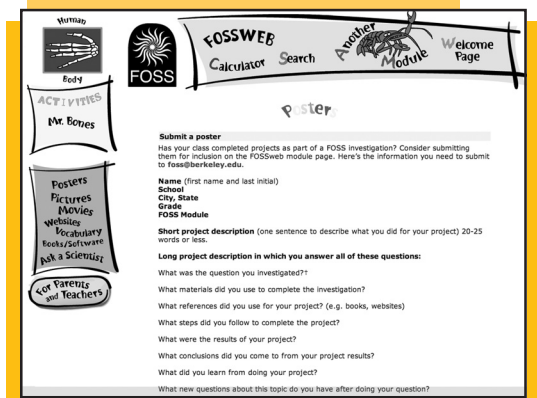
Websites include links to sites that can extend student experience with the **Human Body Module**. The links may inspire some new projects and investigations involving skeletons and other body systems.

In Vocabulary, students will find a glossary of words used in the **Human Body Module** investigations and in *FOSS Science Stories: Human Body*. Downloadable pdf files of the vocabulary list and glossary are available here.

Books/Software includes an annotated list of books, videos, and software recommended for the **Human Body Module**.

In Ask a Scientist, students can review questions about the human body that have been submitted by other students and ask appropriate questions of their own. Adult guidance in submitting questions is highly recommended.

NOTE: Start building Mr. Bones with the rib cage group and move it to a location just to the right of center. If you don't start assembling the bones in this location, even though you have them in the right position on the skeleton, you can't get the final correct answer.



Submit a poster

Has your class completed projects as part of a FOSS investigation? Consider submitting them for inclusion on the FOSSweb module page. Here's the information you need to submit to foos@berkeley.edu.

Name (first name and last initial)
 School
 City, State
 Grade
 FOSS Module

Short project description (one sentence to describe what you did for your project) 20-25 words or less.

Long project description (in which you answer all of these questions):

What was the question you investigated?*

What materials did you use to complete the investigation?

What references did you use for your project? (e.g. books, websites)

What steps did you follow to complete the project?

What were the results of your project?

What conclusions did you come to from your project results?

What did you learn from doing your project?

What new questions about this topic do you have after doing your question?

