

FOSS ANIMALS TWO BY TWO MODULE—WEEK 3

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Hello Teachers and Families,

This package includes **Home/School activities for Animals Two by Two Investigation 3—Big and Little Worms** on the FOSS website

<https://www.fossweb.com>

Families can access Home/School Connections and other resources (multimedia, streaming video, and *FOSS Science Resources* interactive e-book) on FOSSweb through the class pages set up by the teacher. The teacher will need to provide the class user name and password for full access.

If the teacher has not set up Class Pages, families can still access the **Home/School Connections Center** page from the main FOSSweb login page. No registration is necessary for this access.

The Home/School Connections for each module are active investigations that can be conducted at home (inside or outdoors).

If you haven't used FOSSweb resources before, here's how.

For Students and Families: To sign in to FOSSweb, use the user name and password provided by your teacher. This might be a Common Class or Individual Student login. Here's a short video to get you started on FOSSweb

For Student and Families Sign in Video: <https://youtu.be/Fcfjbt7Li2k>

For FOSSweb help: <https://www.fossweb.com/student-parent-help>.

FOR TEACHERS: For help in setting up and using Class Pages, use the Walk-through Videos on FOSSweb:

<https://www.fossweb.com/fossweb-walkthrough-videos>

Visit the Home/School Connection for each module you teach, select the specific assignments that will be most relevant to your students at this point in instruction. Communicate with families about which content you are assigning through the Class Pages Notes on FOSSweb or through any other established parent communication channel your school has in place.

Tech support on FOSSweb: <https://www.fossweb.com/contact-us#jotform>

Sincerely,

The FOSS Team at the Lawrence Hall of Science

HOME/SCHOOL CONNECTION—WEEK 3, A

Investigation 3: Big and Little Worms

Here are things to do at home with this investigation.

Look at the Home School Connection for Investigation 3. *(See the Teacher Master 25 on the next page)*

Families read questions and answers to students about the role of earthworms in the environment. Students cut out and match questions and answers.

As an additional home/school connection, ask your child about what they have learned about worms and to share their experiences with worms. Do you have a compost pile at home? You can see if worms are in your compost pile. Have they ever been fishing and used worms for bait?

Math Extension:

Dig up some worms from your yard if you are able.

Have your child measure the length of the worms by carefully laying them on a strip of paper, marking the ends of the worm on the paper with a pencil, then cutting the paper to the length of the worm. Students can then use nonstandard units, such as paper clips, to measure the length of the paper worm. "The worm is "x" paper clips long." Have your child seriate the paper worms from longest to shortest or from shortest to longest.

HOME/SCHOOL CONNECTION

Investigation 3: Big and Little Worms

Earthworms are often thought of as very lowly and unappealing creatures. But in fact, earthworms are very important creatures in many ways. The tunnels that earthworms make help keep soil loose, and make growing conditions better for garden plants. Water can travel through the soil better, and plants can grow their roots deeper.

To learn more about earthworms, have your child cut out the questions and answers below. Read aloud all of the questions, then read each answer and work together to decide which question it answers. Have your child glue the questions and answers on another sheet of paper, matching each answer to its question.

Q: How big can earthworms get?

A: As earthworms burrow, they produce a covering of mucus. This helps them move through the soil. As the mucus is rubbed off, it cements the walls of the tunnel. The mucus also helps the earthworm slip away from animals that would like to eat it for dinner.

Q: Why are earthworms so moist?

A: Earthworms don't have eyes, but they are sensitive to light.

Q: How do earthworms breathe?

A: The smallest earthworm is barely 2 centimeters long (less than an inch). One of the largest is a 2.5 meter giant that lives in Australia (that's about 100 inches).

Q: Do earthworms really eat dirt?

A: As earthworms make their tunnels through the soil, they take in food that is mixed with dirt. Some of the sand in the soil acts as grinding stones in the worm's gizzard. The soil that is not good for food passes through the earthworm. It is left behind as a casting.

Q: How do earthworms see?

A: Worms need to breathe, just like people, but they don't have noses. The air goes right through their skin.

HOME/SCHOOL CONNECTION—WEEK 3, B

Investigation 3: Big and Little Worms

Read “Worms in Soil” in FOSS Science Resources: *Animals Two by Two eBook*

To access the interactive eBook, login to FOSSweb with the username and password provided by your teacher.

Introduce the title, “Worms in Soil.” Ask your child what they think the article will be about.

Read the article with your child. You can click on the speaker icon on each page to have the text read to your child as well. As you read the article together, answer the questions on the pages together. In addition, here are some things you can do together with the interactives on the pages. (Click on the movie clip icon to play the clips.)

- Pages 37, 38, and 43: Describe how worms move. How can you tell which end of the worm is the head and which end is the tail?
- Page 40: Worms can often be found in soil or in leaf litter (an area of the ground where dead leaves have accumulated and are decomposing). Why do you think they like the leaf litter?
- Page 46: How do worms that live on land move differently than worms that live in water?

Extension activity:

If you can go outside to your yard, see if you can dig up some worms. Where do you find them?

Peregrine Falcon Webcam

Two Peregrine Falcon mates, Annie and Grinnel, are nesting on top of the Campanile at UC Berkeley. Follow their lives as they hatch and care for their babies. As you watch the livefeed, ask your child what they observe about the birds and their nest.

https://www.youtube.com/watch?v=k_ghtsndkf4

To access the video, login to FOSSweb with the username and password provided by your teacher. You’ll find the video listed under “Streaming Videos.”

Tell your child that the video will let you take a trip to the seashore. Focus on the content below as you watch the video with your child.