



Snippets of Science from Fermilab

LS 1 A Explain

WHAT'S SO AMAZING ABOUT THAT?

Challenge: Use more of your senses to observe one living thing. Record your observations. What does your observation make you want to know? What do you think is the answer?

Goal: As you use more senses to answer questions about one living thing, you will record what you think you have learned.

Fermilab Connection: Ecologists at Fermilab record observations in many different ways to learn about the lab's natural environment. Particle scientists need to record tremendous amounts of experimental data, in different ways, to learn about particles. The detectors and other tools are extensions of our senses when we cannot "see" the particles.

Preparation

My Senses, AAAS Science NetLinks (ebook)

<http://sciencenetlinks.com/esheets/my-senses/>

"Observation Beyond Our Eyes," *Understanding Science*

https://undsci.berkeley.edu/article/o_o_o/howscienceworks_05

Procedure

1. Learn how your senses help you learn about your world with the ebook. Learn about tools scientists use to extend their senses in the *Understanding Science* article.

2. Use the log sheet to write down what you notice about one living thing, what it makes you wonder and what you think that means.

GRADE LEVEL

Grades 3–8 with modifications

MATERIALS

- Log sheet
- Pencil

Discussion Questions:

1. Did observing with **more** of your senses reveal something amazing about your living thing?
2. What additional tools might you use to gain more information about the nature you are observing?
3. Does your presence in your outdoor space affect what you observe?
4. How can you organize your observations so that you can collect more data and answer additional questions about what you observe?
5. Do the questions you have help you identify the conditions or factors you should study?