



Making "Sense" of Worms and Eyeballs: Sensory Processing



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Grade Level 4th Grade

Course Life Science

What is in a phenomenon-driven three-dimensional (3D) instructional set? These science resources use phenomena to facilitate engaging and meaningful learning, instruction, and formative assessment. Each resource set contains a guiding document and three other types of documents: an Instructional Task (IT), a corresponding formative Assessment Task (AT), and a corresponding Pattern Analysis of Student Thinking (PAST). These resources are not intended to be a complete lesson plan. Three-dimensional learning is not limited to one specific type of lesson format and is compatible with most lesson plan models. The IT proposes two or more possible phenomena that could be used to drive an instructional sequence addressing a specific OAS-S standard. It also provides suggestions for engaging students with the phenomena through meaningful learning experiences in three dimensions. The AT focuses on a phenomenon-associated scenario. It contains one or more tasks designed to give students opportunities to show their thinking and provide evidence-based explanations about the disciplinary core ideas (DCIs) using crosscutting concepts and scientific practices for that standard. The PAST document is directly associated with the AT. It describes the intended purpose of each part of the AT and includes relevant student response themes to help teachers identify patterns of student thinking. It also provides guidance and insight into how to interpret student responses and possible instructional moves for facilitating student understanding of a specific DCI concept. Individual teachers can use the PAST as a tool to construct a rubric for the AT.

Performance Expectation (PE)

Use a model to explain that animals receive different types of information through their senses, process the information in their brains, and respond to the information in different ways.

Disciplinary Core Ideas (DCI)

An animal has different sense receptors that are specialized for particular kinds of information, which then can be processed by the animal's brain.

Animals can use their perceptions and memories to guide their actions.

Resource Attachments

Phenomenon-Based Instructional Task

- [4-LS1-2 IT Sensory-Processing—Making Sense of Worms and Eyeballs.pdf](#)
- [Guide to using a Phenomenon-Driven Three-Dimensional Instructional Set 3-6-19—Making Sense of Worms and Eyeballs.pdf](#)

Formative Assessment Task

- [4-LS1-2 AT Sensory-Processing Pillbugs—Making Sense of Worms and Eyeballs.pdf](#)

Pattern Analysis of Student Thinking (PAST)

- [4-LS1-2 PAST Sensory Processing Pillbugs—Making Sense of Worms and Eyeballs.pdf](#)