OVERARCHING QUEStion

*How can drawing help your students analyze and interpret their organism?*

ConcepT

Keen observation is fundamental to scientific drawing and provides a detailed means of analyzing and interpreting data.

activate

Students select a mystery organism video from the APW video bank and analyze and interpret their creature by creating a detailed, proportionally-scaled, and labeled drawing of it on graph paper.

check

Students present their drawing to their peers, highlighting details they observed and sharing their analysis and interpretation of the organism’s features and behaviors.

lesson Objectives

* Identify the parts of good scientific drawing.
* Analyze and interpret a mystery organism using scientific drawing.

resources

* PowerPoint: [**Analyzing and Interpreting Data in the Field – Hassayampa River Preserve**](https://arizona.app.box.com/file/783220006398?s=5ctbtd4ezqeyvisre4mbuu7swl7yilbd)
* Graph Paper: [**Graph-paper-fourth-inch.pdf**](https://arizona.box.com/s/0nw81d727wevm6jewakyrky08u2kk4jd)

Lesson Instructions

Use the PowerPoint presentation and embedded notes to lead the lesson. There may be additional instructions within the PowerPoint notes if you are delivering this virtually. Ask students to use the graph paper to scale the various parts of their organism proportionally to one another. This means that they start at an edge and draw each part exactly as they see it rather than trying to draw the whole organism without a reference point.