



## ACESSE Resource H: Attending to Student Interests and Community Priorities in Phenomena

In this workshop, we will build our capacity to identify a variety of meaningful phenomena of different types that connect to specific science and engineering learning standards. We will first explore what makes a phenomenon compelling to students and how we can ensure this happens in our classrooms. Then, we will focus on different classes of phenomena, and how using them can promote goals for equity. This resource can also be used by individuals wanting to learn how allowing students to take meaningful action to solve problems associated with real-world phenomena related to science and engineering.

Participants will explore different classes of phenomena (using the framework of [Suárez & Bell, 2019](#)):

- **Everyday phenomena**, which all students will be able to experience in class or have experienced outside of class,
- **Contemporary scientific phenomena**, which relate to current science, most often science that is in the news today because it is unsettled or sparks controversy;
- **Societally relevant phenomena**, which relate to science-technology intersections, connects to care and concern and enables students to see connections to social and socio-ecological justice; and
- **Culturally relevant phenomena**, which are grounded in the worlds of specific communities in culturally significant ways and allows students to draw on ways of knowing from families and cultural communities.

This learning experience will help participants:

- Brainstorm some considerations about what make for meaningful phenomena for students
- Review a set of phenomena descriptions generated by others and say which ones might be compelling to students and why
- Explore a framework with examples for different classes of phenomena

[STEMteachingtools.org/pd/SessionH](https://STEMteachingtools.org/pd/SessionH)



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