

Asking Questions

Elements of Student Performance

High School



[Science & Engineering Practice 1](#)

Addressing phenomena of the natural world or scientific theories

Ask questions that arise from careful observation of phenomena, or unexpected results, to clarify and/or seek additional information.

Ask questions that arise from examining models or a theory, to clarify and/or seek additional information and relationships.

Ask questions that address the relevant disciplinary core idea and include the relevant crosscutting concept.

Ask questions to determine relationships, including quantitative relationships, between independent and dependent variables.

Ask and/or evaluate questions that challenge the premise(s) of an argument or the interpretation of a data set.

Evaluating empirical testability

Ask questions that can be investigated within the scope of the school laboratory, research facilities, or field (e.g., outdoor environment) with available resources.

Evaluate a question to determine if it is testable and relevant.

Frame a hypothesis based on a model or theory.

[HS-PS4-2](#) / [HS-LS3-1](#)