

Asking Questions and Defining Problems 3-5

NGSS Practice 1

Asking questions and defining problems in 3–5 builds on K–2 experiences and progresses to specifying qualitative relationships.

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- Ask questions about what would happen if a variable is changed.
- Identify scientific (testable) and non-scientific (non- testable) questions.
- Ask questions that can be investigated and predict reasonable outcomes based on patterns such as cause and effect relationships.
- Use prior knowledge to describe problems that can be solved.
- Define a simple design problem that can be solved through the development of an object, tool, process, or system and includes several criteria for success and constraints on materials, time, or cost.