

AQDP: Ask Questions and Define Problems	Asking questions and defining problems in K–2 builds on prior experiences and progresses to specifying descriptive questions that can be tested.	Asking questions and defining problems in 3–5 builds on K–2 experiences and progresses to specifying qualitative relationships between variables, clarify arguments and models.	Asking questions and defining problems in 6–8 builds on K–5 experiences and progresses to specifying relationships between variables, clarify arguments and models.
			<p><b>AQDP-E1:</b> Ask questions about what would happen if a variable is changed.</p> <p><b>AQDP-P1:</b> Ask questions based on observations to find more information about the natural and/or designed world(s).</p>
		<p><b>AQDP-M1:</b> Ask questions that arise from careful observation of phenomena, models, or unexpected results, to clarify and/or seek additional information.</p> <p><b>AQDP-M2:</b> Ask questions to identify and/or clarify evidence and/or the premise(s) of an argument.</p> <p><b>AQDP-M3:</b> Ask questions to determine relationships between independent and dependent variables and relationships in models.</p> <p><b>AQDP-M4:</b> Ask questions to clarify and/or refine a model, an explanation, or an engineering problem.</p>	<p><b>AQDP-H1:</b> Ask questions that arise from careful observation of phenomena, or unexpected results, to clarify and/or seek additional information.</p> <p><b>AQDP-H2:</b> Ask questions that arise from examining models or a theory, to clarify and/or seek additional information and relationships.</p> <p><b>AQDP-H3:</b> Ask questions to determine relationships, including quantitative relationships, between independent and dependent variables.</p> <p><b>AQDP-H4:</b> Ask questions to clarify and refine a model, an explanation, or an engineering problem.</p>
		<p><b>AQDP-E2:</b> Identify scientific (testable) and non-scientific (non-testable) questions.</p> <p><b>AQDP-E3:</b> Ask questions that can be investigated and predict reasonable outcomes based on patterns such as cause and effect relationships.</p>	<p><b>AQDP-M5:</b> Ask questions that require sufficient and appropriate empirical evidence to answer.</p> <p><b>AQDP-M6:</b> Ask questions that can be investigated within the scope of the classroom, outdoor environment, and museums and other public facilities with available resources and, when appropriate, frame a hypothesis based on observations and scientific principles.</p>
		<p><b>AQDP-P2:</b> Ask and/or identify questions that can be answered by an investigation.</p>	<p><b>AQDP-H5:</b> Evaluate a question to determine if it is testable and relevant.</p> <p><b>AQDP-H6:</b> Ask questions that can be investigated within the scope of the school laboratory, research facilities, or field (e.g., outdoor environment) with available resources and, when appropriate, frame a hypothesis based on a model or theory.</p>
		<p><b>AQDP-M7:</b> Ask questions that challenge the premise(s) of an argument or the interpretation of a data set.</p>	<p><b>AQDP-H7:</b> Ask and/or evaluate questions that challenge the premise(s) of an argument, the interpretation of a data set, or the suitability of the design.</p>
			<p><b>AQDP-H8:</b> Define a design problem that involves the development of a process or system with interacting components and criteria and constraints that may include social, technical and/or environmental considerations.</p> <p><b>AQDP-H9:</b> Analyze complex real-world problems by specifying criteria and constraints for successful solutions.</p>