

DCI: Engineering Design

K.ETS1.A: Defining and Delimiting Engineering Problems

A situation that people want to change or create can be approached as a problem to be solved through engineering. Such problems may

have many acceptable solutions. (K-2ETS1-1)

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Before beginning to design a solution, it is important to clearly understand the problem. (K-2ETS1-1)

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Asking questions, making observations, and gathering information are helpful in thinking about problems. (K-2ETS1-1)

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K.ETS1.B: Developing Possible Solutions

Designs can be conveyed through sketches, drawings, or physical models. These representations are useful in communicating ideas for a problem's solutions to other people. (K-2ETS1-2)

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K.ETS1.C: Optimizing the Design Solution

Because there is always more than one possible solution to a problem, it is useful to compare and test designs. (K-2ETS1-3)