

Middle School

Define the criteria and constraints of a design problem with sufficient precision to ensure a successful solution, taking into account relevant scientific principles and potential impacts on people and the natural environment that may limit possible solutions. MS ETS 1-1

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Evaluate competing design solutions using a systematic process to determine how well they meet the criteria and constraints of the problem. MS ETS 1-2

2 Evaluate competing design solutions using a systematic process to determine how well they meet the criteria and constraints of the problem. MS ETS 1-2

Analyze data from tests to determine similarities and differences among several design solutions to identify the best characteristics of each that can be combined into a new solution to better meet the criteria for success. MS ETS 1-3

3 Analyze data from tests to determine similarities and differences among several design solutions to identify the best characteristics of each that can be combined into a new solution to better meet the criteria for success. MS ETS 1-3

Develop a model to generate data for iterative testing and modification of a proposed object, tool, or process such that an optimal design can be achieved. MS ETS 1-4

4 Develop a model to generate data for iterative testing and modification of a proposed object, tool, or process such that an optimal design can be achieved. MS ETS 1-4