

Design Process

Design Process K-5	What it looks like & means K-2	What it looks like & means 3-5
Ask	Students ask questions, make observations and gather information to define a simple problem.	Students define a simple design problem including specified criteria and constraints.
Explore	Students develop simple drawings to generate ideas of how to solve the given problem.	Students generate and compare multiple possible solutions.
Model	Students develop a simple sketch to illustrate how the chosen concept will function to solve the given problem and develop a simple physical model.	Students develop a solution to a problem based on how well each is likely to meet the criteria and constraints of the problem and construct a prototype.
Evaluate	Students analyze data from tests of two objects and compare strengths and weaknesses of how each performs.	Students plan and carry out fair tests in which variables are controlled. Students consider failure points of data collected to identify aspects of the design solution that can be improved.
Explain	Students reflect on their design solution including one or two suggestions for improvement.	Students communicate their design solution including specific suggestions for improvement.