

## High School Engineering Design

NGSS Code	Performance Expectations	Bridge Builder Module					
		Structural Concepts	Beam Me Up	Bridge Analysis	Draft It Up!	Basic Box Bridge Structure	Improved Box Bridge Structure
HS-ETS1	Engineering Design						
HS-ETS1-1	Analyze a major global challenge to specify qualitative and quantitative criteria and constraints for solutions that account for societal needs and wants.						
HS-ETS1-2	Design a solution to a complex real-world problem by breaking it down into smaller, more manageable problems that can be solved through engineering.						
HS-ETS1-3	Evaluate a solution to a complex real-world problem based on prioritized criteria and trade-offs that account for a range of constraints, including cost, safety, reliability, and aesthetics, as well as possible social, cultural, and environmental impacts.						
HS-ETS1-4	Use a computer simulation to model the impact of proposed solutions to a complex real-world problem with numerous criteria and constraints on interactions within and between systems relevant to the problem.						