

# Earthquake Building Design



Created by:	Rebecca Marx
Subject:	Science
Standard:	MS-ETS1-4

## Learning Standard

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Science

Engineering Design - MS-ETS1-4

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.

## Evidence of Learning

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Students will create

Students will work together in their cooperative learning groups using the data from the class technology tests to create what they believe is the best design of a building to withstand an earthquake. Their buildings need to fit in the constraints and criteria given to them by the kit and modified by the teacher. Kit criteria is 8 seconds to stop shaking, but was modified to 4 seconds to make the challenge more advanced. Students are able to test their buildings multiple times. The group with the best design within the criteria competes with the other classes to see which design/model will be "bought" by the principal and STEM teacher to build.

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