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*What Structural Shape Will Endure the Stresses of a Natural Disaster the Best?*

Science has helped us build buildings thousands of feet tall and develop construction techniques that can withstand earthquakes, monsoons, tornados, and so much more. Unfortunately, all this technology is completely outside the reach of the people living in developing nations. In my project I took the information that I learned in my 2011-2012 experiment, and expanded my experiment to include earthquakes and sub-freezing temperatures. The experiment included two structures, known as structure A and structure B. Structure A was modeled after traditional building techniques with four walls, and vertical studs. Structure B was very similar, but also included diagonal support beams that were worked into the structure. I tested the earthquake scenario by using a shaker table and the subfreezing temperatures by using a freezer. I found that structure B was much stronger.