The Effect of Support Material on House Movement in an Earthquake

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Earthquakes can take people's jobs, houses, and lives. Studies in this field have shown that the majority of deaths in an earthquake are due to building collapse. (Ammon 2019)The purpose for this project is to find out what material is best for protecting a house, office building, hospital, and even sports stadiums. My hypothesis is that if metal and wood are combined, they will make a better support as it blends the flexibility of wood with the strength of the metal. On a molecular level, wood is a very flexible material. In contrast, metal is a harder and stronger material.

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1. As a part of this research project, the student directly handled, manipulated, or interacted with (check all that apply):

   ☐ human participants ☐ potentially hazardous biological agents
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2. This abstract describes only procedures performed by me/us, reflects my/our own independent research, and represents one year's work only.
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3. I/We worked or used equipment in a regulated research institution or industrial setting.
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4. This project is a continuation of previous research.
   ☐ yes ☐ no

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