

Science

- Understanding earthquake physics: Through building and testing the lego towers on an earthquake shake table, the student learns about the effects of seismic waves and how buildings respond to them.
- Engineering principles: The activity introduces the concept of structural stability and how different designs can impact the tower's ability to withstand an earthquake.
- Problem-solving skills: As the student tests and modifies their tower design, they gain practical experience in troubleshooting and adjusting their models to improve stability.
- Observation and analysis: By observing how the lego towers react to the earthquake shake table, the student develops critical thinking skills by evaluating the structural integrity of their designs.

Encourage the student to explore different building materials and designs for their towers to expand their understanding of earthquake-resistant structures. Additionally, they can research real-life examples of buildings designed to withstand earthquakes and try to incorporate these elements into their lego towers. This research-driven approach can further enhance their comprehension of the concepts involved.

Related Educational Toys and Games

- [LEGO City Space Mars Research Shuttle](#) by LEGO: This set allows kids to build their own space shuttle and mars rover, promoting creativity and imagination.
- by PlayShire: This toy set includes 101 pieces to build a helicopter, airplane, and more, promoting an understanding of engineering concepts.
- [Earthquake in a Box - A DIY Shake Table Kit](#) by Teach Tech: This kit allows children to build their own shake table for testing structures, providing hands-on experience with earthquake engineering.

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