






Lesson 3.4 Earthquakes

Student Workbook Component

Warm Up – Scientific Investigation

Can we tell if something will wobble when shaken?

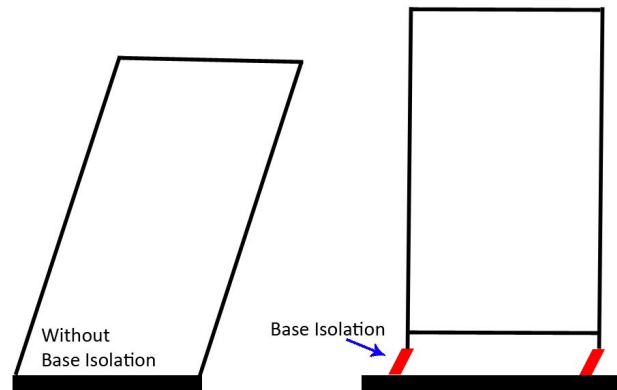
**Review these images and decide if you think they will shake.
How do you know?**

Object / Structure	Will it shake? How do you know?
	
	
	
	
	

Mini-lesson:

What is an earthquake and how can we make a good structure?

What is base isolation? Use the space below to write a description of what it is and how it helps when there is an earthquake.

[illegible]

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Can you put these earthquakes in order with **strongest** first?

2.6	4.8	2.8	3.4
6.5	7.6	7.2	5.1

Use the table below to put them in order. Remember, **strongest first**.

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Complete the sentences below with the correct keyword.

Earthquake	Tectonic	Isolation	Structure	Crust	Richter
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There are many natural disasters in the world and one that makes the earth shake is called an _____ and we can measure an earthquake on the _____ scale which tells us how strong it was. An earthquake is caused by the outer layer of the earth called the _____, which is broken into pieces called _____ plates and when these move, collide and get stuck on one another they cause an earthquake to happen. When we build on somewhere where earthquakes happen we need to think about the _____ of the building and one way is to use base _____.

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Challenge 1

Build a sound structure using straws

Partner up with a classmate. Use the table below to review their straw structure. Record what you liked about the design and any improvements to make.

Construction by	What you liked	Improvements