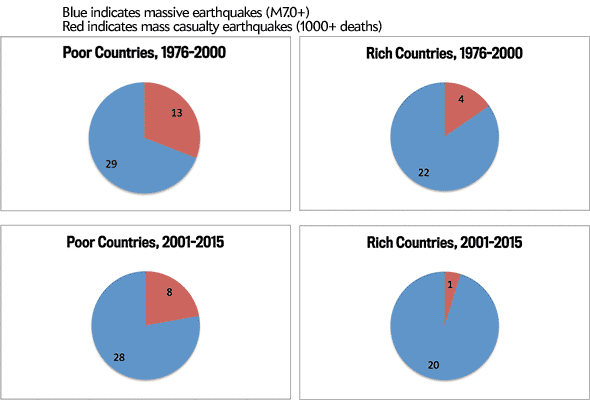
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| **IGCSE Geography – What can be done to reduce the impacts of earthquakes?** |



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| **Task 1** – Complete the following questions by studying the pie charts above. | |
| Approximately, how many more times deadly were earthquakes in poor countries than in rich countries (1976-2000)? |  |
| Calculate the % reduction in fatalities in poor countries between the 1976-2000 and 2001-2015. |  |
| Calculate the % reduction in fatalities in rich countries between the 1976-2000 and 2001-2015. |  |
| How many times more people died in poor countries that rich countries from strong earthquakes between 2001-2015? |  |
| Can you think of any reasons why this death toll is so much higher in poor countries than in rich countries? |  |

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| **Can We Earthquake Proof a City? – BBC The Inquiry** |



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| **Task 2** – Listen to the BBC Inquiry Podcast embedded on geographypods and complete the activity sheet below. | |
| How many people have died in the last 20 years in earthquakes? |  |
| **Part 1 - Lessons From The Dead - Dr Emily Sow (researcher)** | |
| Where in the world are earthquakes likely to happen? |  |
| What causes the most deaths to occur during an earthquake? |  |
| What is the worrying trend in the developing world in terms of the building designed? |  |
| You will hear details of two 7.6 magnitude earthquakes and two different locations. Fill in the death rate. | Dead in Taiwan -  Dead in Pakistan - |
| Why is urbanization causing a higher death rate in less developed countries? |  |
| **Part 2 – High Tech City – David Malott (architect)** | |
| Why are tall buildings safer than low to mid height buildings in earthquakes?  Key word: Resonance. |  |
| What is the Mile-High Tower and why does David want to build it in Japan? |  |
| How long are these buildings designed to last for? |  |
| **Part 3 – Low Tech City – Martijn Schildkamp (architect)** | |
| How has Martijn successfully built schools to be earthquake resistant in Nepal? |  |
| How can we use old materials in new ways to build earthquake resisted buildings in poor countries? |  |
| Find a picture of a ‘gabion box’ on Google & paste it to the right. |  |
| Why is he against the idea of the ‘build quick & cheap’ option? |  |
| **Part 4 – Lifelines – Dr Lucy Jones (Seismologist USGS)** | |
| Why is stopping ‘all earthquake damage’ impossible? |  |
| What did Lucy do in 2008? |  |
| Note: The video you will hear is hyperlinked into geographypods. | |
| What would happen in the Los Angeles basin in the event of the expected large earthquake? |  |
| What would the aftermath of a large earthquake be in Los Angeles? |  |
| What does retrofitting old buildings mean? |  |
| What other things are being done to prepare for the big quake in Sothern California? |  |
| How often does Southern California suffer from big earthquakes? |  |
| So, can we earthquake proof cities? |  |