

Case Study Name:	The Christchurch earthquakes		<u>Key Terms:</u> seismic waves	
Section of the Specification:	The Natural environment. (2.1)			
Location:	<u>Town/City/Region:</u> Pacific Ocean Christchurch, Southern Island 40km from Christchurch epicenter, depth 10km	<u>Country:</u> New Zealand	<u>Continent:</u> Oceania	
<u>Key Information:</u>		<u>Causes/Theory:</u>		
<u>What?</u> Earthquake (Christchurch Earthquake)	<u>When?</u> 2010-2012 (4.9.10) Aftershocks 2011-2012, strongest on 22.2.11	The Australian and Pacific plate rub against each other, building up pressure until the pressure is so big that the rocks crumbles upward, sending seismic waves through the earth.		
<u>Why?</u> Australian and Pacific plate causing a conservative boundary	<u>Facts and Figures:</u> 2010 earthquake 7.1 magnitude 2011 aftershock 6.3 magnitude - 185 deaths - 11000 aftershocks - 2.3 - 2.9 billion dollars			
<u>Effects:</u>		<u>Solutions:</u>		
<u>Political</u> NONE	<u>Economic</u> - between \$2.3 - 2.9 billion money spent on insurance - 75% of electric lines were disrupted	<u>What has/could be done? By whom?</u>	<u>Are they Sustainable? Why/Why not?</u>	
<u>Environmental</u> • sewers and waterlines damaged • natural environment (habitats) and buildings destroyed	<u>Social</u> - 185 casualties, many injuries			
<u>Possible Exam Question:</u>				