**Hazards Review Notes –seismic hazards**

**What are earthquakes? What causes them?**

**Define the following terms:- focus, epicentre and seismic waves (draw a little diagram).**

**Describe and explain the distribution of earthquakes globally.**

**How does the depth of focus vary between the different plates?**

**What is the difference between body and surface waves?**

**What are the main features of primary, secondary, Love and Raleigh waves?**

**How are seismic waves measured and why do scientists prefer the MMS scale to the Richter and Mercalli?**

**What are the primary and secondary effects of seismic hazards?**

**Give examples of each of the secondary hazards - where each have occurred and the impacts they have had. Assess each as to their potential severity.**

**What factors can affect vulnerability?**

**How can people mitigate against seismic hazards?**

**Detailed case study example of Tohoku**

**Mind-map or produce notes to include:-**

**The spatial and temporal setting of the event.**

**The association of the event to plate boundaries and plate movement.**

**The causes of the event.**

**The perception of the event, and the factors affecting those perceptions at a range of scales –e.g. magnitude, frequency, population characteristics.**

**The impacts and an assessment of the impacts.**

**Assessment and justification of the response to the event – including the factors affecting the response.**