

## **Geohazards Video Questions**

**Tuesday 28 April**

### **1. Why New Zealand has Geohazards**

Walk up to the lookout above the fur seal colony in Kaikōura to see how plate tectonics have shaped this area

1. What is significant about the Kaikōura Peninsula
2. Why does New Zealand have so many geohazards?
3. What can be seen from this lookout that shows that the area has been uplifted?

Next step learning: Find out about the rate of uplift of the Southern Alps of New Zealand.

### **2. Tsunami and New Zealand**

Come down to the coast to find out more about tsunami and the risk of future tsunami in Kaikōura.

1. What is a tsunami?
2. What causes tsunami?
3. Why is there a risk of tsunami in Kaikōura?

Next step learning: Find out which areas of New Zealand are most at risk from tsunami.

### **3. Earthquakes and New Zealand**

Drive up to a lookout over Kaikōura to talk with Rob about earthquakes and active faults

1. Where do earthquakes occur?
2. What has created the mountain ranges like the Kaikōura Ranges?
3. How are earthquakes measured?

Next step learning: Find out more about the largest earthquakes in New Zealand's recent history.



#### **4. The Hope Fault**

Drive inland to Greenburn stream to see the Hope Fault.

1. How do we know the Hope Fault runs through here?
2. How big is an earthquake on the Hope Fault likely to be?
3. Why is it helpful to know about when previous earthquakes have occurred on this fault?

Next step learning: The Hope Fault is one of the more active faults in New Zealand; what other faults are likely to rupture in the next 1-200 years?

#### **5. Landslides**

Take a break during your drive to Blenheim to investigate a recent landslide.

1. Why is this area prone to landslides?
2. What are the main triggers for landslides?
3. What could you do to try and reduce landslides on this land?

Next step learning: Find out if there have been any landslides in your local area and what has been done to manage the impacts of these.