Year 10 Science: Plate tectonics: plates, boundaries, earthquakes and volcanoes

Name: _____ Date: _____

Try these without your notes first, then check the answer key.

Practice

1. A plate moves 5 cm a year. How far does it move in 2 million years? Give your answer in km.

2. What type of boundary is the Alpine Fault mainly, and what mountain range has formed along it?

3. Why are there active volcanoes in the central North Island but not along the Alpine Fault?

4. Give the main reason most scientists rejected Wegener's continental drift at first, and what later evidence changed their minds.

5. A map shows a long line of earthquakes in the middle of the Atlantic Ocean, mostly shallow, with some volcanoes. What type of boundary is this, and why?

Fix the mistake

6. Correct this statement: "The plates float on a layer of liquid magma."

7. Correct this statement: "The Alpine Fault is a subduction zone, like the one under the North Island."

8. Correct this statement: "Volcanoes and earthquakes happen at every type of boundary."

9. Correct this statement: "480 km is 480 000 cm."