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Activity

Mapping tectonic hazards

Michelle Minton

Read the Geographical Skills column in **WIDELAND Vol. 32, No. 1**. This activity sheet will help you recognise the relationship between earthquakes and volcanic eruptions, and describe the location of different plate boundaries.

Get ready

To complete this activity sheet you will need:

- A sharp pencil
- A red pen/pencil
- Tracing paper
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Task

- 1 Take your tracing paper and place it on top of Figure 2 (map showing the location of earthquakes and volcanoes around the world).
- 2 Using your pencil and Figure 1, draw on the tracing paper to show where the main plate boundaries are located (this is quite tricky, so take your time).
- 3 Write the name of each plate onto your tracing paper as well as the arrows to show the direction of plate movement.
- 4 Use the key in Figure 1 to add on fold mountains and categorise the types of plate boundaries on your tracing paper.
- 5 For any volcanic eruption which occurs outside of the plate boundaries, draw a red triangle, for example Hawaii. These should indicate where the hot spots are.
- 6 Add a key to your tracing paper to include plate boundaries, hot-spot volcanoes and arrows for plate movement.

You can now lift your tracing paper on and off to see where the most volcanoes and earthquakes are located and match the plate boundaries to the location of most earthquakes and volcanoes.

Now, use your map to answer the 6 questions at the end of the article.

When you have completed them to the best of your ability, use the answers box to check and correct your answers.

Teacher notes

This sheet could be given as homework or used as a class activity. It aims to support student's understanding of the relationship between plate boundaries and earthquakes and volcanoes. It also supports locational knowledge of plate names and types of boundaries. A follow-up retrieval task could be used in a future lesson, asking students to complete a plate boundary map by memory on a blank outline map of the world.

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