

GALE SCAVENGER HUNT: PLATE TECTONICS

Gale In Context: High School

Directions: Use *Gale In Context: High School* to find answers to the following questions about **Plate Tectonics**. Write both your answer and the source you used.

To answer these questions, use the **Plate Tectonics Topic Page**. From the homepage, click on **Browse Topics** and open the **Topic Page** titled **Plate Tectonics**.

1 Read the **Overview** at the top of the page by selecting the **Read More** button. What is plate tectonics? What was Pangaea and what happened to it?

Answer:

Source:

2 Who was Alfred Wegener? What did he do?

Answer:

Source:

3 Click into the **Images** section of the **Topic Page** and select the image titled “Cascadia Tsunami”. What does this image show? What are scientists worried about?

Answer:

Source:

4 Watch the video “Scientists Shed Light on How Blue Diamonds Form”. How are blue diamonds related to plate tectonics? What do scientists think causes them to be blue?

Answer:

Source:

5 Select the **Magazine** section. Using the filters on the right side of your screen, limit your results to the **Subject** “Earthquakes” and read the first result. What does the research mentioned in the article suggest about plate tectonics?

Answer:

Source:

1 **Answer:** Plate tectonics is the process of large rock sections called plates moving around Earth's surface changing and creating things like faults, volcanoes, and mountains. Pangaea was a supermassive continent that broke apart due to tectonic movements.

Source: Plate Tectonics. (2022). In *Gale In Context Online Collection*. Gale. [https://link.gale.com/apps/doc/HTHRGM732997641/SUIC?u=\[ENTER LOCID\]&sid=bookmark-SUIC&x-id=21c3bad6](https://link.gale.com/apps/doc/HTHRGM732997641/SUIC?u=[ENTER LOCID]&sid=bookmark-SUIC&x-id=21c3bad6)

2 **Answer:** Alfred Wegener was a German meteorologist and geophysicist. He created the theory of continental drift.

Source: Alfred Wegener. (2006). In *Scientists: Their Lives and Works*. UXL. [https://link.gale.com/apps/doc/K2641500212/SUIC?u=\[ENTER LOCID\]&sid=bookmark-SUIC&x-id=575f043b](https://link.gale.com/apps/doc/K2641500212/SUIC?u=[ENTER LOCID]&sid=bookmark-SUIC&x-id=575f043b)

3 **Answer:** This image shows the boundary where the Juan de uca plate dips below the North American plate. Scientists are worried that very strong earthquakes can originate from this area.

Source: *Cascadia Tsunami* [Regional map]. (2012). Tribune Content Agency Graphics. [https://link.gale.com/apps/doc/CT3294261084/SUIC?u=\[ENTER LOCID\]&sid=bookmark-SUIC&xid=b06339e0](https://link.gale.com/apps/doc/CT3294261084/SUIC?u=[ENTER LOCID]&sid=bookmark-SUIC&xid=b06339e0)

4 **Answer:** Diamonds are caused by pressure deep below the earth's surface. Much of the pressure is caused by plate tectonic movements like subduction. Scientists believe the addition of boron is what makes the diamonds blue.

Source: *Scientists Shed Light On How Blue Diamonds Form* [Video]. (2018, August 1). AP Video News. [https://link.gale.com/apps/doc/PBYLRB242768864/SUIC?u=\[ENTER LOCID\]&sid=bookmark-SUIC&xid=aa72fe7b](https://link.gale.com/apps/doc/PBYLRB242768864/SUIC?u=[ENTER LOCID]&sid=bookmark-SUIC&xid=aa72fe7b)

5 **Answer:** It suggests that earthquakes are both affected by and affect tectonic plates.

Source: Groundbreaking discovery: New research into earthquakes suggests that they are both affected by and affect tectonic plates. (2022, June). *Geographical*, 94(6), 13. [https://link.gale.com/apps/doc/A706132226/SUIC?u=\[ENTER LOCID\]&sid=bookmark-SUIC&xid=98daee4a](https://link.gale.com/apps/doc/A706132226/SUIC?u=[ENTER LOCID]&sid=bookmark-SUIC&xid=98daee4a)