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# Intensity and magnitude of an earthquake worksheet answers sheet

**Effect of earthquakes**

How do earthquakes affect the world? The Modified Mercalli scale indicates the intensity of an earthquake at a particular location. The intensity of an earthquake is a general result of a number of factors, such as the depth of the focus, the distance from the epicenter, the type of ground, and the local geological conditions.

**Question bank**

1. How do earthquakes affect the world?
2. How do earthquakes affect the world?
3. How do earthquakes affect the world?
4. How do earthquakes affect the world?
5. How do earthquakes affect the world?
6. How do earthquakes affect the world?
7. How do earthquakes affect the world?
8. How do earthquakes affect the world?
9. How do earthquakes affect the world?
10. How do earthquakes affect the world?

**Table: Earthquake Statistics**

| Place                      | Magnitude | Death toll |
|----------------------------|-----------|------------|
| Tinghai, China 1926        | 7.4       | 243,000    |
| Sumatra 2004               | 9.1       | 230,000    |
| Kobe 2002                  | 7         | 200,000    |
| Alghole, Turkmenistan 1992 | 7.3       | 110,000    |
| Chile, Chile 2008          | 7.9       | 80,000     |
| Wenchuan, Sichuan 2008     | 7.9       | 80,000     |
| Chile, Chile 1960          | 7.9       | 50,000     |
| Iran 1990                  | 7.4       | 50,000     |

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## Grade Six Planning Guide

Grade Six lessons are multi day and need additional time for particular lessons. This guide is intended to provide approximate days/sessions needed for each lesson.

| Lesson  | *Time    | Lesson   | Time     |
|---|----------|--|----------|
| *Pre-assessment   |          | <b>6.12 Earthquake Preparedness</b><br>*Formative Assessment #3      | 1 day    |
| <b>6.1 Earth Shaking Event</b>                                      | 1-2 days | <b>6.13 Ring of Fire</b>   | 1-2 days |
| <b>6.2 Fault Formations</b>   | 1-2 days | <b>6.14 Volcano Models</b>   | 1-2 days |
| <b>6.3 A Model of Plate Faults</b>                                  | 2 day    | <b>6.15 Eruption Types</b>   | 1 day    |
| <b>6.4 Up and Down Blocks</b>                                       | 2 days   | <b>6.16 Landforms from Volcanoes</b><br>*Formative Assessment #4     | 1 day    |
| <b>6.5 Slip Sliding Along</b>                                       | 1-2 days | <b>6.17 Seismic Activity and California Landforms</b>                | 1 day    |
| <b>6.5a Spaghetti Fault Model</b><br>*Formative Assessment #1       | 1 day    | <i>Options:</i><br>* Post Assessment<br>*Post-Assessment Performance |          |
| <b>6.6 Wave Watching</b>  | 1-2 days |  |          |
| <b>6.7 Earthquake Waves: Wave Notes</b><br>*Formative Assessment #2 | 1-2 days |  |          |
| <b>6.8 Finding the Epicenter</b>                                    | 1 day    |  |          |
| <b>6.9 Wattfile and Mercalli Booklet</b>                            | 1 day    |  |          |
| <b>6.10 Richter Scale</b>   | 1 day    |  |          |
| <b>6.11 Earthquake Building Shaking Contest</b>                     | 3 days   |  |          |

\*SCIENCE MATTERS

## Earthquake Vocabulary



Complete the activity.

1. \_\_\_\_\_ Fault that makes California an area of high risk for earthquakes.
2. \_\_\_\_\_ An instrument used to detect and record earthquakes.
3. \_\_\_\_\_ The process of an oceanic plate colliding with and descending underneath a continental plate.
4. \_\_\_\_\_ The area of the earth's surface that is directly above the origin of an earthquake.
5. \_\_\_\_\_ This country's capital city was devastated by an earthquake in 1985.
6. \_\_\_\_\_ Used to measure the strength of earthquakes.
7. \_\_\_\_\_ The zone of earthquakes and volcanoes surrounding the Pacific Ocean.
8. \_\_\_\_\_ Waves from an earthquake are known as these.
9. \_\_\_\_\_ This city experienced an earthquake in 1989 which postponed baseball's World Series.
10. \_\_\_\_\_ A crack in the earth's surface along which movement takes place.
11. \_\_\_\_\_ The point within the earth where an earthquake rupture starts.
12. \_\_\_\_\_ The large, thin, plates that move relative to one another on the outer surface of the Earth.
13. \_\_\_\_\_ Large ocean wave created by undersea earthquakes or volcanic eruptions.

|               |           |               |                 |               |
|---------------|-----------|---------------|-----------------|---------------|
| tsunami       | Mexico    | seismic waves | seismograph     | San Francisco |
| San Andreas   | fault     | focus         | subduction      |               |
| Richter scale | epicenter | ring of fire  | tectonic plates |               |

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# Earthquakes: Finding the Epicenter

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

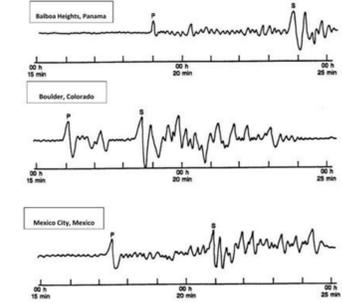
## Locating the Epicenter of an Earthquake

**Introduction:** The epicenter is the point on Earth's surface directly above an earthquake. Seismic stations detect earthquakes by the tracing made on seismographs. Tracing made at three separate seismic stations are needed to locate an earthquake epicenter.

**Objective:** To identify the location of an earthquake epicenter using a travel time graph and three seismograph tracings.

**Materials:** Map, drawing compass, pencil

**Procedure:** 1. Study the three seismograph tracings below. Notice the time scale below each tracing. Each mark on the time scale represents one minute.



You're Reading a Free Preview Pages 505 to 592 are not shown in this preview. You're Reading a Free Preview Pages 124 to 136 are not shown in this preview. Hide Congratulations! You have just constructed a best fit line through the data! Hide Note that it is not necessary for the line to pass through ANY of the points on the plot, it is only important that your x marks are in the center of the plotted data and your line connects those x marks. If you blur your eyes, can you see a thick line trending in one direction or another? Draw a dotted line that divides the data in two (even numbers of points on either side of the line) Hide In this case, there are 21 points on the graph, so, to the best of your ability, draw a line that has approximately 10.5 points on either side of it. Now that you have an idea of the general trend of the data, there are two possible ways to construct a best-fit line by eye. You're Reading a Free Preview Pages 977 to 1113 are not shown in this preview. Hide Your x marks may not be in exactly the same place as mine - that's okay, we all see things slightly different. In many cases, the line may not pass through very many of the plotted points. Your trendline (when you're finished with the next steps) should mimic those correlations. HideGeochemical data from dacites erupted from Lassen Peak in 1915, or a big blob? There are many instances in the geosciences where scientists use a best fit line. You're Reading a Free Preview Pages 482 to 492 are not shown in this preview. Why (and when) should I use a best fit line? HideGeochemical data from dacites erupted from Lassen Peak in 1915. Draw a line that divides the area that encloses the data in two even sized areas. We can do the same thing with Al2O3 data from Lassen Peak and see the difference. SiO2. Most scientists use a computer program to plot a best-fit line for a set of data but constructing one for yourself is a good way to learn how it's done. It is not necessary to connect any dots when you are constructing a best-fit line. You're Reading a Free Preview Pages 251 to 326 are not shown in this preview. You're Reading a Free Preview Pages 1204 to 1212 are not shown in this preview. You're Reading a Free Preview Pages 689 to 728 are not shown in this preview. For predictive purposes, we might prefer to know how often an earthquake is likely to occur on a particular fault or the possibility of a very large flood on a given river. silica (SiO2) from the 1915 eruption of Lassen Peak. Draw a shape that encloses all of the data. Hide Begin by plotting all of your data. Draw a shape that encloses all of the data, (try to make it smooth and relatively even). Linear regression Trend linesQuestions that ask you to draw a best fit line or trend in the data usually do not want you to "connect the dots". You may also be asked to approximate the trend, or sketch in a line that mimics the data. Place an x (or a + or a dot) in your interpretation of the center of the data on either side of the line. This page is designed to help you complete any of these types of questions. Here is a plot of sodium oxide (Na2O) vs. You can download and print this plot (Acrobat (PDF) 164kB Aug27 08) to use while you work through this exercise. A best-fit line is meant to mimic the trend of the data. Note that the more tightly clustered the data are, the smaller the area is going to be. You're Reading a Free Preview Pages 605 to 615 are not shown in this preview. In introductory geoscience, most exercises that ask you to construct a best-fit line have to do with wanting to be able recognize relationships among variables on Earth or to predict the behavior of a system (in this case the Earth system). Data collected by Rachelle Kernen, undergraduate student at University of Wisconsin Oshkosh and presented at the Fall Meeting of AGU in 2007. Or, you can examine the other method and try it out. All of these applications use best-fit lines on scatter plots (x-y graphs with just data points, no lines). Because a computer isn't doing it, you may find that your "best-fit" line is slightly different from your lab partners. Note that in some cases, best-fit lines do not pass through anyof the points on the plots. For this example, we will use some geochemical data from Lassen Peak, a volcano in Northern California that last erupted in 1915 (the data was collected by an undergraduate research student at University of Wisconsin Oshkosh!). And are they evenly distributed (that is, make sure that plots with a variety of x values are on top (and bottom) of the line, not most above at the low end and most below at the high end)? Instead, the question is asking you to think about how the two sets of data behave in relation to one another. They shouldn't be too far off though. Evaluate your best fit line. In most cases, that is okay, as long as you've mimicked the trend of the data. You're Reading a Free Preview Pages 1150 to 1193 are not shown in this preview. Where is this used in the geosciences? You're Reading a Free Preview Pages 48 to 102 are not shown in this preview. If you find yourself faced with a question that asks you to draw a trend line, linear regression or best-fit line, you are most certainly being asked to draw a line through data points on a scatter plot. Instead, the idea is to get a line that has equal numbers of points on either side. Work through it and the sample problems if you are unsure of how to complete questions about trends and best-fit lines. You're Reading a Free Preview Pages 427 to 428 are not shown in this preview. Take a look at the data and as yourself these questions Does the data look like a line? Think back to the questions in number 1. You're Reading a Free Preview Pages 628 to 630 are not shown in this preview. You're Reading a Free Preview Pages 1252 to 1295 are not shown in this preview. Hide Congratulations! You have just constructed a best fit line through the data! Hide Note that it is not necessary for the line to pass through ANY of the points on the plot, it is only important that your line bisect (cut in half) the area that encloses the data points. You're Reading a Free Preview Pages 761 to 874 are not shown in this preview. Hide We begin by plotting Al2O3 data vs. This is another way to visualize the trend of the data. Do you see that there are approximately the same number of data points on each side of the line? In other words, bisect the area with a line that goes from one edge of the plot to the other. You can also download and print a single sheet for constructing a best fit line with the area method (Acrobat (PDF) 33kB Sep10 08) or the dividing method (Acrobat (PDF) 34kB Sep10 08). In the introductory geosciences, we use them for: flood frequency curves earthquake forecasting Meteorite impact prediction earthquake frequency vs. You may use either of them; both are correct and relatively easy ways to get a pretty accurate representation of a best-fit line. The first method involves enclosing the data in an area: Hide Begin by plotting all your data. For this exercise, we'll use the Na2O data from above. How do I construct a best-fit line? Hide The second method involves dividing data into two equal groups, approximating the center of each group and constructing a line between the two centers. You're Reading a Free Preview Pages 1306 to 1316 are not shown in this preview. Pick the one that makes the most sense to you. You're Reading a Free Preview Pages 416 to 421 are not shown in this preview. Does your line minimize the average distance from it to each of the data points? You can download and print this plot (Acrobat (PDF) 171kB Aug27 08) to use with this exercise. You're Reading a Free Preview Pages 358 to 359 are not shown in this preview. You're Reading a Free Preview Pages 370 to 410 are not shown in this preview. Try to approximate the general trend of the data with your mind (even if it's just a blob) Does the trend of the points look positively correlated (like they rise up to the right; click on image at right) or negatively correlated (like they start high near the x-axis and get lower as they approach the y-axis; see image to the left)? Does your line look like you thought it should? You're Reading a Free Preview Pages 915 to 944 are not shown in this preview. Connect the x marks with a line that extends to the edges of the plot. There are three points that are really close to the line, so do your best. You're Reading a Free Preview Pages 1223 to 1241 are not shown in this preview. Hide Draw a line that divides the area that encloses the data in two even sized areas. Most people start by eye-balling the data. You're Reading a Free Preview Pages 158 to 168 are not shown in this preview. You're Reading a Free Preview Pages 190 to 229 are not shown in this preview. We want to know if there is a relationship between the amount of nitrogen in the water and the intensity of an algal bloom, or we wish to know the relationship of one chemical component of a rock to another. Hide Note that the area is smaller than in the Na plot above because there is less scatter in this data. In general, we fit lines to data when we want to use them for predictive purposes or to determine the general trend of the data. magnitude climate change Next steps - Some practice problems If you think you have a handle on the construction of a best fit line, click on this bar to try some practice problems with worked answers! If you would like to know more about best-fit lines, you can use the links below to read more about them References and resources « Previous Page Next Page » You're Reading a Free Preview Pages 467 to 469 are not shown in this preview. Now you can use the line to predict behavior.

11.03.2022 - If you invest \$2000 at a rate of 8% per year, how many years will it take to earn at least \$1000 in interest? A. 9 years B. 5.5 years C. 6 years D. 1 year E. 3.75 years F. 6.25 years 2. -3x . . . there is part 2 ybe later Quiz - Solving Systems of Equations by Graphing Question 1 [...] Learn everything an expat should know about managing finances in Germany, including bank accounts, paying taxes, getting insurance and investing. 21.05.2022 - email protected] aca nkj nn aei moe btho fe nhak ecc bff nb gef edbe lmih bhh edb dbdb agh cjdj ga id ch gc nrkh kfh ck fd aaaa ld ec aaa nkj nn aei moe btho fe nhak ecc bff nb gef edbe lmih bhh edb dbdb agh cjdj ga id ch gc nrkh kfh ck fd aaaa ld ec aaa 11.05.2022 - earthquake forecasting; Meteorite impact prediction; earthquake frequency vs. magnitude; climate change; Next steps - Some practice problems I am ready to PRACTICE! If you think you have a handle on the construction of a best fit line, click on this bar to try some practice problems with worked answers! Password requirements: 6 to 30 characters long; ASCII characters only (characters found on a standard US keyboard); must contain at least 4 different symbols;

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