Physical Geography

Tsunamis

Go to [Enchanted Learning](http://www.enchantedlearning.com/subject/tsunami/) (<http://www.enchantedlearning.com/subject/tsunami>)

Explain what a tsunami is:

What are the warning signs of a possible tsunami? (Hint – ‘NOTE”)

Draw what a tsunami looks like

How fast can tsunamis travel?

Draw what a tsunami looks like when it hits the coast:

Go to: “[The Deadliest Tsunami in History](http://news.nationalgeographic.com/news/2004/12/1227_041226_tsunami.html)?”, National Geographic News, January 7, 2005

<http://news.nationalgeographic.com/news/2004/12/1227_041226_tsunami.html>

On December 26, 2004 a tsunami hit Indonesia. It was the deadliest tsunami in history up to that time. The earthquake that generated the tsunami is estimated to have released the energy of \_\_\_\_\_\_\_\_\_\_\_\_\_ Hiroshima-type atomic bombs.

By the end of the day, how many people were dead or missing? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

People in \_\_\_\_\_ countries were \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

What was the magnitude of the earthquake? \_\_\_\_\_\_\_\_\_\_

Where was the epicenter of the earthquake? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The rupture was estimated to be more than \_\_\_\_\_\_\_\_\_\_\_\_\_ miles long and displaced the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ by perhaps \_\_\_\_\_\_\_\_\_\_\_ yards.

Property was demolished from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

The Indian Ocean tsunami traveled as much as \_\_\_\_\_\_\_\_\_\_\_ miles to Africa, arriving with sufficient force to \_\_\_\_\_\_\_\_\_\_\_ people and \_\_\_\_\_\_\_\_\_\_\_\_\_ property.

How high was the wave reported in some places? \_\_\_\_\_\_\_\_\_\_

**Geographic Knowledge Saved Lives**

Read this section and give 3 examples of people who saved lives. Explain what happened with each.



How did animals know?

[To see pictures of the 2004 Indonesia tsunami](http://news.nationalgeographic.com/news/2005/01/photogalleries/tsunami_photos/index.html)

[Read about the March 2011 tsunami in Japan.](http://www.abc.net.au/news/2011-03-11/tsunami-swamps-japan-after-powerful-quake/2661744)  Or here [BBC News](http://www.bbc.co.uk/news/world-asia-pacific-12709598) or [Red Cross](http://www.redcross.org.uk/What-we-do/Teaching-resources/Lesson-plans/Japan-tsunami)

How powerful was the earthquake that set off the tsunami? \_\_\_\_\_\_\_\_\_\_\_\_\_

How many people were impacted in the event? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (estimates)

Click on the [**Japan Quake: video reports**](http://www.bbc.co.uk/news/world-asia-pacific-12716870)and watch some of the videos of the actual tsunami  
(<http://www.bbc.co.uk/news/world-asia-pacific-12716870>)

Write your reactions to one of the videos (at least 4 sentences)

On the map below:

1. Mark the earthquake epicenter of the Indonesia tsunami. The places hardest hit including Sumatra, Indonesia, Thailand, and also Africa’s east coast.
2. Mark the earthquake epicenter of the Japan 2011 tsunami and make the areas affected by the tsunami.

**Mercator Pacific-Centered Projection**   
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