

Plate BOUNDARIES 2017

Convergent, Divergent, Transform

Directions Part I : Discovery & Exploration

1. Explore the Boundaries in action.

Divergent and Transform boundaries Animation:



<http://www.learner.org/interactives/dynamicearth/slip3.html>

Convergent & Divergent



<http://education.sdsc.edu/optiputer/flash/convection.htm>

All 3 Boundaries:



http://www.classzone.com/books/earth_science/terc/content/visualizations/es0804/es0804page01.cfm?chapter_no=visualization

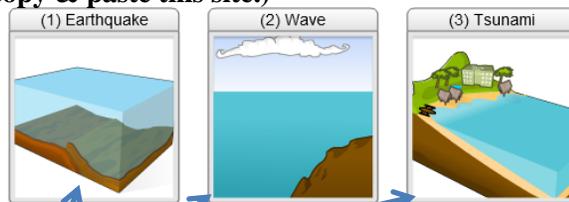
2. What would a Mid-ocean ridge and rift valley really look like?

http://www.ngdc.noaa.gov/mgg/image/mobile_device_images/mariana/marianarocky_iP.mp4

3. How do boundaries cause a Tsunami?

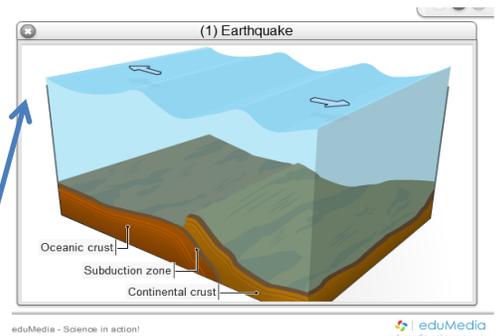
<https://www.edumedia-sciences.com/en/a98-tsunami>

(*You may have to copy & paste this site.)



*Click and play each close window

To



eduMedia - Science in action!

eduMedia
www.edumedia-sciences.com

Directions Part II: Boundaries Tables

→ 4. NOW Complete your tables.
You will complete the 1st, 3rd, 4th columns.

YOU MAY NEED TO REVISIT THE SITES FROM PART I

1st Column:

General Description: Include a brief description of what is happening at that boundary.

Draw arrows: Show the movement at the boundary. Ex.- → ←

Type of Stress: There are 3 types of stress: Tension (pulling), Compression (pushing), and Shearing (moving past one another)

What kind of stress generally happens at each boundary?

If you don't understand the 3 stress, google it or ask questions!

3rd Column:

Topographic Features: What types of land features occur there?

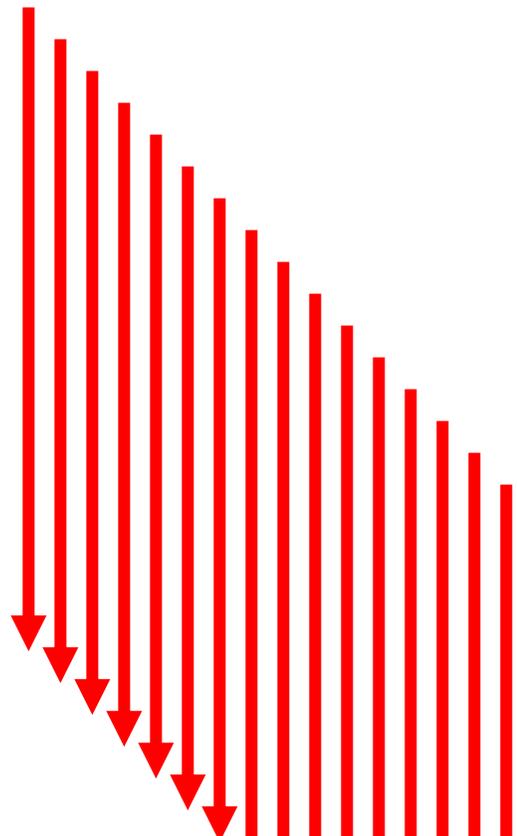
Example: Rifts, volcanoes, mountains, etc.

4th Column:

Real World Example: Name a famous example of this type of boundary.

Example: Himalayan Mountains, Andes Mountains

Continue to PART III



PART III

5. Faults

- **Faults are large cracks in crustal rock.**
- **Faults are caused by a built up of stress forces at plate boundaries.**
- **When movement occurs along those faults, EARTHQUAKES happen.**
- **Three types of faults are:**

Normal Fault

Reverse Fault (sometimes called: thrust fault)

Strike-Slip Fault

The type of fault will be decided by the stress at that boundary. Review the 3 types of stresses and note the direction of the arrows.

After viewing the sites **Below**, add the type of fault common at each boundary to the 3rd column “Resulting Topographic Features” section of your boundaries tables.

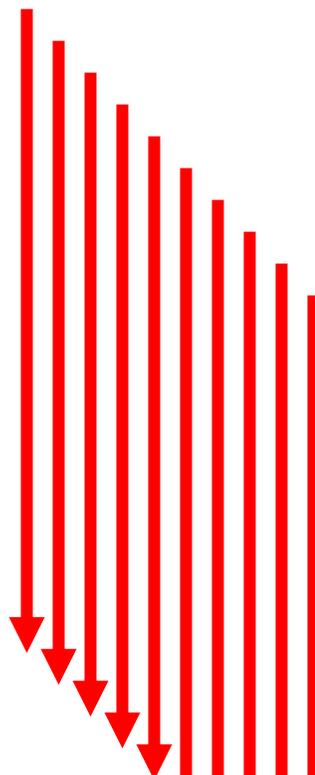
http://www.classzone.com/books/earth_science/terc/content/visualizations/es1103/es1103page01.cfm

<http://www.geolsoc.org.uk/ks3/gsl/education/resources/rockcycle/page4269.html>

<http://www.geolsoc.org.uk/ks3/gsl/education/resources/rockcycle/page4271.html>

<http://www.geolsoc.org.uk/ks3/gsl/education/resources/rockcycle/page4270.html>

Continue to PART IV



Part IV: “Movement of Lithospheric Plates Diagram”

***Label the diagram**

1. Click on the links below & Scroll down until you find a picture that can help you label your diagram.
2. Label as many features as you see from your word bank.
3. Click on the other web sites as needed.

You will probably not find all the features on one site!!!!!!!!!!!!!!

http://www.globalchange.umich.edu/globalchange1/current/lectures/evolving_earth/evolving_earth.html

<http://www.enchantedlearning.com/subjects/astronomy/planets/earth/Continents.shtml>

http://www.classroomatsea.net/general_science/plate_tectonics/tectonics_intro.html

C*omplete v*ocabulary FR*om this activity, in Y*our *own w*ords,
4 w*ords *or less, in Y*our v*ocabulary section *of Y*our j*ournal.

d*one with Y*our v*ocabulary?
STUDY! This isn't g*oing t*o be an easy test.

