STUDENT WORKSHEET

FEASTING ON FAULTS

Record your observations on the gum.

1. Go to the Internet and type http://www.amnh.org/explore/ology into the address bar.
2. Click on the EARTH box.
3. Click on PLATES ON THE MOVE.
4. Draw the correct arrow combination for the type of plate movement below and write the name of each plate movement in the blank under the drawing/description.

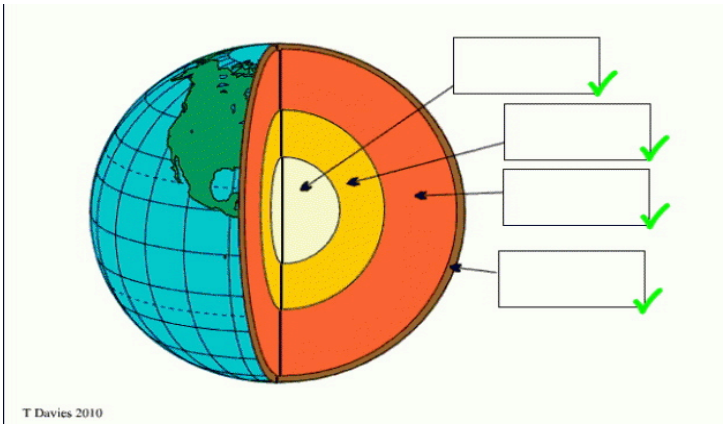
One plate sinks below the other	Two plates move apart from each	Two plates slide past each other	Two plates crash and fold up

_____ _____ _____ _____

5. Click on EXPORE HOW PLATES AFFECT YOUR WORLD.
6. In the intro, what do the red dots popping up on the world map represent?

_____

7. Where the plates meet is called? _____
8. Click on PLATES ON THE MOVE at the top-left of the page by the word OLOGY.
9. Click on the button FIND OUT MORE ABOUT THE POWER OF PLATES.
10. Label the parts of Earth's interior on the diagram below.



11. Summarize each layer of Earth.

a.

b.

c.

d.

12. Click on the button MOUNTAINS
13. What are some physical differences between old mountains and young mountains?

_____

14. Where do mountains form? What kind of plate boundary is this called?

_____

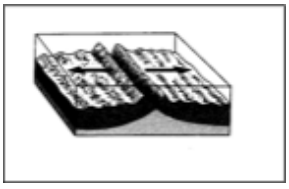
15. Think back to the gum activity. What type of force directly applies to mountain building?

_____

16. List 2 advantages (good things) about the candy bar as a model of Earth's movement, and 2 disadvantages (bad things) about it.

Advantages	Disadvantages
1.	1.
2.	2.

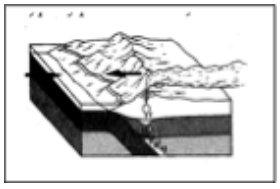
17. Identify the type of plate boundary shown in each picture. Circle your choice from those listed.



Convergent

Divergent

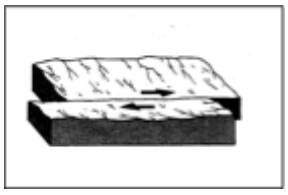
Transform



Convergent

Divergent

Transform



Convergent

Divergent

Transform

Ticket-Out-The-Door:

Use Figure 1, "Earth's Plates," to complete questions 1 & 2.

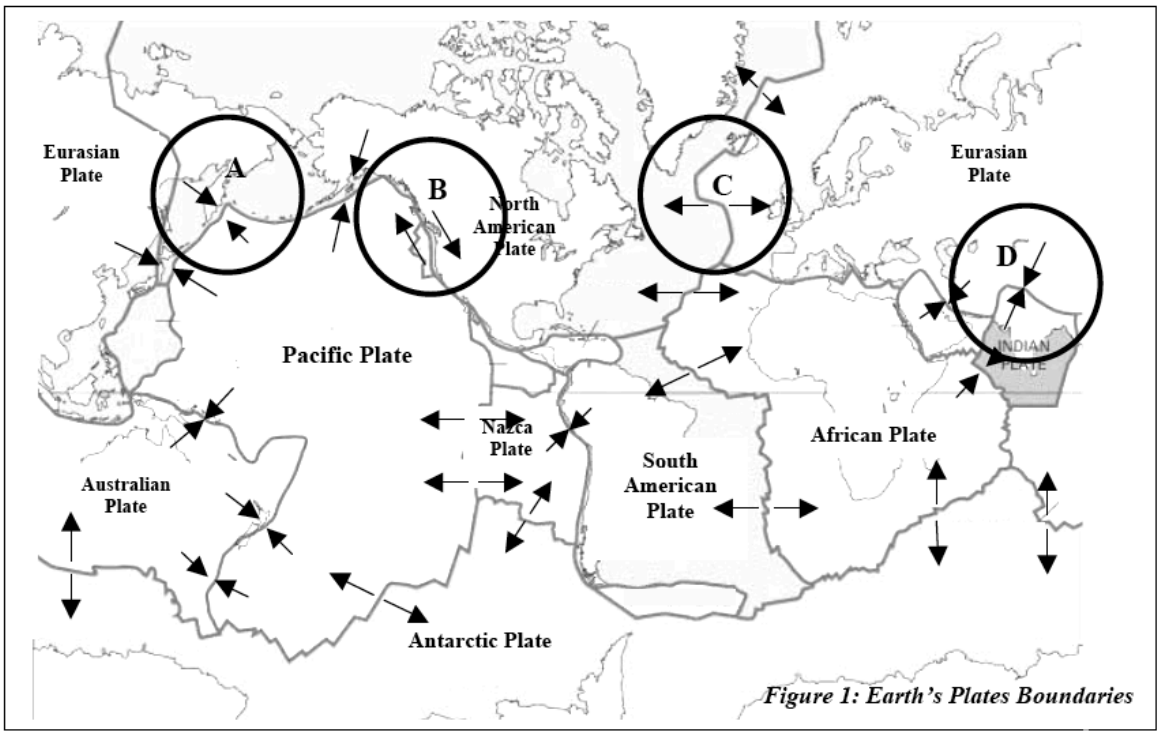


Figure 1: Earth's Plates Boundaries

1. Circle the type of boundary located at each letter on the map. Pay attention to the direction of the arrows.

A	B	C	D
Convergent	Convergent	Convergent	Convergent
Divergent	Divergent	Divergent	Divergent
Transform	Transform	Transform	Transform

2. Circle the type(s) of geologic events that would most likely occur along each boundary shown on the map.

A	B	C	D
Earthquakes	Earthquakes	Earthquakes	Earthquakes
Mid-ocean ridge	Mid-ocean ridge	Mid-ocean ridge	Mid-ocean ridge
Mountains	Mountains	Mountains	Mountains
Rift-valleys	Rift-valleys	Rift-valleys	Rift-valleys
Trenches	Trenches	Trenches	Trenches
Volcanoes	Volcanoes	Volcanoes	Volcanoes