

AM Activities

Map with G.I.S. 7

Names: _____

ArcGIS Online

You are able to log in to your class account from ANY computer that is connected to the Internet. Just use the information below to load in the web site:

URL: arcgis.com (then click "Sign In")

Username: _____

Password: _____

Movie 1: Plate Tectonics

There are 3 main types of boundaries; identify them, and explain what happens for each:

| Type of Plate Boundary | What Happens to the Plates? |
|------------------------|-----------------------------|
| | |
| | |
| | |

What observations can you make about the plate buffer zone, and the mountain chains of the earth?

Movie 2: Fault Lines

On a scale of 1 - 5 (5 being a higher probability), rate each City as likely to have an earthquake:

| | | | | | | |
|-------------|---|---|---|---|---|-------|
| Toronto | 1 | 2 | 3 | 4 | 5 | why?: |
| Quebec City | 1 | 2 | 3 | 4 | 5 | why?: |
| Vancouver | 1 | 2 | 3 | 4 | 5 | why?: |
| Tokyo | 1 | 2 | 3 | 4 | 5 | why?: |
| Paris | 1 | 2 | 3 | 4 | 5 | why?: |

Movie 3: Volcanoes

Looking around the earth, what can you say about:

| Type of Plate Boundary | Number of Volcanoes | | | Size of Volcanoes <i>(circle as many as apply)</i> | | | |
|------------------------|---------------------|------|------|--|--------|-------|---------|
| Convergent | Few | Some | Many | Small | Medium | Large | X-Large |
| Divergent | Few | Some | Many | Small | Medium | Large | X-Large |
| Transform | Few | Some | Many | Small | Medium | Large | X-Large |

What observations can you make about the plate buffer zone, and volcanoes?

Movie 4: Earthquakes

Looking around the earth, what can you say about 1997-2007 earthquakes:

| Type of Plate Boundary | Number of Earthquakes | | | Magnitude of Earthquakes | | |
|------------------------|-----------------------|------|------|--------------------------|-------|------------|
| Convergent | Few | Some | Many | Mostly Small | Mixed | Mostly Big |
| Divergent | Few | Some | Many | Mostly Small | Mixed | Mostly Big |
| Transform | Few | Some | Many | Mostly Small | Mixed | Mostly Big |

What observations can you make about the plate buffer zone, and earthquakes from 1997-2007?

Movie 5: Real-Time Earthquake Data

Looking around the earth, what can you say about recent earthquakes from the past 30 days:

| Type of Plate Boundary | Number of Earthquakes | | | Magnitude of Earthquakes | | |
|------------------------|-----------------------|------|------|--------------------------|-------|------------|
| Convergent | Few | Some | Many | Mostly Small | Mixed | Mostly Big |
| Divergent | Few | Some | Many | Mostly Small | Mixed | Mostly Big |
| Transform | Few | Some | Many | Mostly Small | Mixed | Mostly Big |

What observations can you make about earthquakes and the plate buffer zone vs. fault line buffer zone?
