



## *Project: Take a Tectonic Vacation!*

**Purpose:** To integrate plate tectonics with language arts, geography, history, and art, and to provide students with an opportunity to learn about a geologically significant locality of their choosing.

**Duration:** Variable

### **Materials required:**

- *Tectonic Travel Decal* information sheets *Tectonic passport* and travel journal
- Tectonic Passport stamps printed on clear, full-sheet labels (Avery #8665)
- World map
- Art supplies or computer to produce new decal and stamp
- Travel planner (print out for each student)

### **Directions:**

- Tell students they are planning their own vacations in places with tectonic significance. Since they will be traveling throughout the world, they will need passports and journals to document their experiences.
- Post the laminated tectonic travel decal reference sheets in the classroom where all students can view them as they plan their vacations.
- Post a map of the world (political map, showing countries) so students can identify the country of each travel destination on their trip.
- Give each student the travel planner and instruction sheets for this lesson. Have students complete their travel planners and plot their routes.
- Distribute passport and journal pages for each student. Have students assemble their passports and journals.
- Let students know that they will have an opportunity to post or present a tectonic destination advertisement for the rest of the class.



**Congratulations! You've won a year-long vacation to explore the geology of our planet! Read the guidelines on this page to help you plan your trip, then complete your travel planner.**

## TRIP REQUIREMENTS:

- ✓ You have **one year** to complete your trip.
- ✓ Your trip must include **at least four** tectonic destinations.
- ✓ Choose three of your destinations from the 15 decal locations that are found on your classroom's traveling trunk.
- ✓ One destination must be a **new** location of your choosing (not one of the 15 decals).

## YOUR ROUTE MUST INCLUDE:

- ✓ At least **three** tectonic plates.
- ✓ At least one active subduction zone.
- ✓ At least one active rift.

## DURING YOUR TRIP:

- ✓ Update your passport.
- ✓ Complete your tectonic travel journal.
- ✓ Chart your vacation route on a world map and label your destinations.

## TRAVEL CONSIDERATIONS:

- ✓ Money is no object! You will not run out of money during your vacation.
- ✓ Your modes of travel may not include space travel, but you may include a deep sea submersible.
- ✓ You may hire a taxi for short distances only.
- ✓ Allow enough time to travel from place to place. Some destinations do not have airports nearby. Remember to use trains, which may be much more available than in the U.S.
- ✓ Think about the weather; seasons are different in the southern hemisphere.

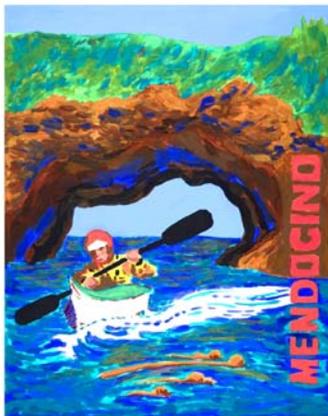
## Tectonic Vacation Instructions, continued:

### AFTER YOUR TRIP:

Design an advertisement for your new tectonic destination to showcase your location! Your advertisement can be a decal, postcard, poster, or a 30-second commercial.

Include all of the following in your advertisement:

1. The location of your site (continent, country, ocean, etc.)
2. A description of the type of tectonic activity found at your site (subduction, rifting, volcanic activity, seafloor spreading, etc.).
3. An explanation of why geologists will find your site interesting. What is the geologic significance of your site?
4. The reasons travelers would want to visit your site.
5. If you are creating an audio commercial, your script must use descriptive words to help the listener visualize your site (your script should "paint a picture" with words).



# Rocks on the Move Tectonic Travel Planner

Golden Gate  
National Park Service  
U.S. Department of the Interior



Traveler's name \_\_\_\_\_

Fill in name of each destination	Arrival/Departure dates	Tectonic plate of destination	Country of destination	Brief description of geologic significance
Destination #1 _____	Depart home _____ Arrive #1 _____ Depart #1 _____			
Destination #2 _____	Arrive #2 _____ Depart #2 _____			
Destination #3 _____	Arrive #3 _____ Depart #3 _____			
Destination #4 _____	Arrive #4 _____ Depart #4 _____ Arrive home (if no #5) _____			
Destination #5 <b>(extra credit)</b> _____	Arrive #5 _____ Depart #5 _____ Arrive home _____			



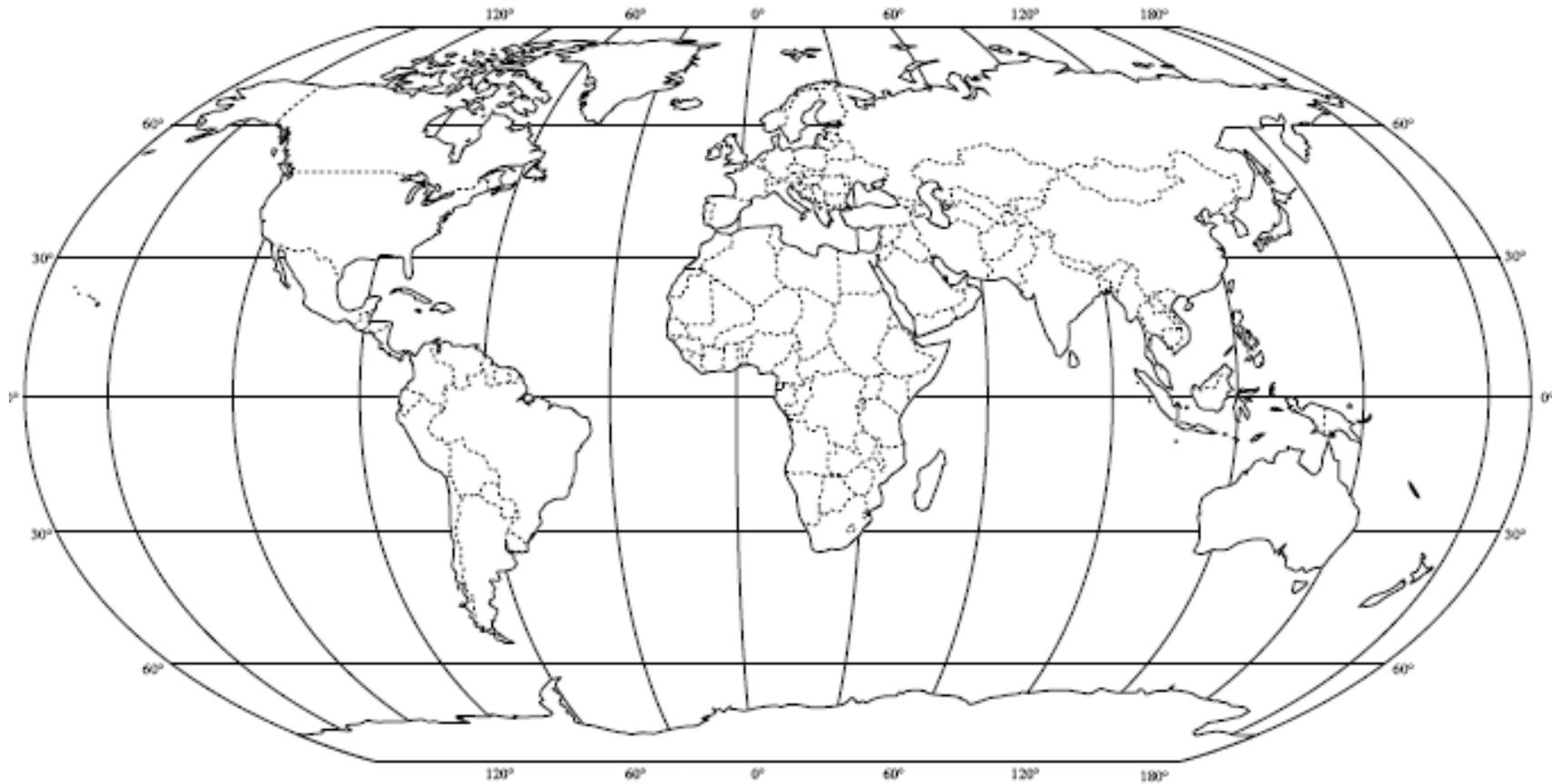
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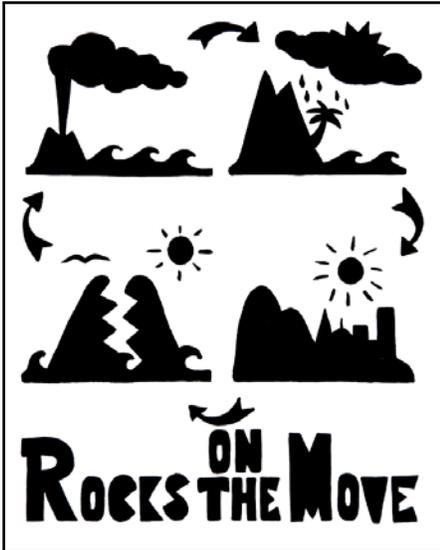


Traveler's name \_\_\_\_\_

Mark your travel route on this map. Label each destination with the number from your planner chart.



# TECTONIC PASSPORT



*Planet Earth*

# TECTONIC PASSPORT



*Planet Earth*

## Instructions

Each destination must include:

1. National passport stamp of the destination.
2. Date of arrival.
3. Date of departure.

Your name:

---

2

## Instructions

Each destination must include:

1. National passport stamp of the destination.
2. Date of arrival.
3. Date of departure.

Your name:

---

2

Important!

This passport is the property of Planet Earth.

It must be surrendered on demand by an authorized representative of the planet.

The passport is not valid unless signed by the bearer on page two.

7

Important!

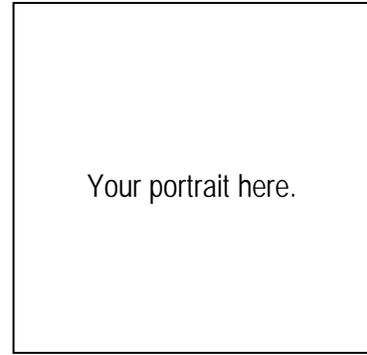
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*Arrivals*



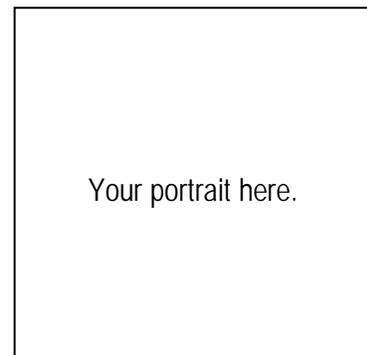
*Signature:*



6

3

*Arrivals*



*Signature:*



6

3

*Arrivals*

*Departures*

4

5

*Arrivals*

*Departures*

4

5



Date \_\_\_\_\_



Date \_\_\_\_\_



Date \_\_\_\_\_



Date \_\_\_\_\_



Date \_\_\_\_\_



Date \_\_\_\_\_



Date \_\_\_\_\_



Date \_\_\_\_\_



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