**Latitude and Longitude Activity**

**Objective:** Students will be able to use their knowledge of latitude and longitude to answer real-world questions using these concepts.

**Standards:**

* **WG.1.1** Explain Earth’s grid system and locate places using degrees of latitude and longitude.
* **WG.2.1** Name and locate the world’s continents, major bodies of water, major mountain ranges, major river systems, all countries and major cities.

**Approximate Length:** 20 minutes

**Materials Needed:** Copies of worksheets

**About the Lesson:**

This lesson is designed to help students learn longitude and latitude. This activity assumes that the teacher has already discussed longitude and latitude with her/his class and that students have a basic knowledge of the concepts. The lesson is designed to allow students to apply their knowledge and solidify the concepts.

*This lesson plan was created by the Inner Asian and Uralic National Resource Center (IAUNRC) at Indiana University-Bloomington in February 2012. The map for the worksheet was also created in February 2012 by the IAUNRC.*

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Latitude and Longitude of Central Asia**

Using the attached map of Central Asia, answer the following questions about latitude and longitude.

1. What country is located at 45°N, 100°E? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. What country is located at 30°N, 55°E? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. If you are at 50°N, 125°E, where are you? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Pretend you are traveling through Central Asia. You start at 30°N, 65°E. What country

are you in? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Now move 10° to the north. What is your *latitude* reading? What country are you in now?

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1. From your location in problem #5, move 5° westward. What is your *longitude* reading? Which country are you in? ­­­­­­

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1. Now move 20° to the north and 25° to the east. What is your *latitude and longitude* reading? What country are you in?

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1. Which countries does the latitude line 40°N run though? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. Which countries does the longitude line 70°E run through? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. If each time zone is 15° longitude wide, starting at 45°E, how many time zones are on

this map? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Teacher Answers to the Worksheet**

1. Mongolia
2. Iran
3. China
4. Afghanistan
5. 40°N, Uzbekistan
6. 60°E, Turkmenistan
7. 60°N, 85°E, Russian Federation (Russia)
8. Turkmenistan, Uzbekistan, Tajikistan, Kyrgyzstan, China
9. Afghanistan, Tajikistan, Kyrgyzstan, Uzbekistan, Kazakhstan, Russian Federation
10. 6 (Not all of the time zone past 120°E is shown on the map, but part of it is.)

