



## **Latitude and Longitude – How To Use this Unit**

The activities in this unit are intended to be used sequentially. However, activities can be omitted or their order can be changed at a teacher's discretion.

### **Activity 1 – Find the Country**

Open the activity by clicking the *Start Activity* link. This activity is intended as a teacher guided learning tool that explains the three steps to finding a countries latitude and longitude.

Step 1: Find  $0^{\circ}$ ,  $0^{\circ}$

Step 2: Count the degrees North or South.

Step 3: Count the degrees East or West.

In this animation, the user is asked to locate the coordinates of a specific country. Follow the steps as they turn red at the bottom of the screen:

1. Drag the pin to  $0^{\circ}$ ,  $0^{\circ}$ .
2. Click North or South of the pin to locate the latitude. When finished, click the "Finished Step 2" Button. (*Note: The latitude is measured in increments of 1*)
3. Click East or West to locate the longitude. (*Note: The longitude is measured in increments of 5*)

Of course, various coordinates will give correct answers for this animation. Discuss with your students why.

Click the "Again?" button to select a new country.

### **Activity 2 – Find the Coordinates**

Open the link by clicking the *Start Activity* button. This activity is intended as a self-directed learning tool that allows students to use the knowledge garnered in Activity 1.

Follow the same three steps to locate the country that is at the given coordinates

1. drag the pin to  $0^{\circ}$ ,  $0^{\circ}$
2. count the degrees of latitude by clicking on the map
3. count the degrees of longitude by clicking on the map

Then,

4. Click the country that appears where the two green lines cross. A feedback screen will tell the user if he/she is correct.

The "reset" button in the upper right of the screen will return the user to step 1, but will not change the coordinates. Click the "Again?" button to select a new country.