**Mini-Book Introduction to Latitude and Longitude**

**Teacher Prep:**

* Copy page 1 on cardstock. 1 page for every 2 students
* Copy pages 2 and 3 on cardstock or copy paper 1 page for every 2 students
* Copy page 4 on cardstock or copy paper 1 page for each student
* Create a sample book.

**Materials Needed:**

* Classroom globe
* Copies listed above
* Scissors, glue, and crayons or colored pencils
* Teacher-created sample book
* Recommended- vocabulary and picture cards

**OK Social Studies Standards Targeted:**

* + 1. Construct basic maps… including the introduction of latitude and longitude and the division of the Earth into four hemispheres.

**Instructional Recommendations:**

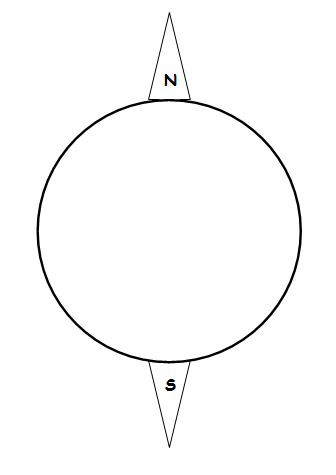
* **Second grade students will benefit if this activity is split into two days.** (Day 1- Step 1&2 Day 2- Step 3&4)

Splitting the activity this way will limit the number of new vocabulary words introduced in a single lesson.

Students more successfully differentiate between latitude/longitude when the skills are introduced separately.

* **Utilizing vocabulary picture cards and/or images** of the globe divided by latitude/longitude will support student learning.
* In order to maximize instructional time, **it may be beneficial to ask volunteers to do the cutting for this activity ahead of time.**
* **The shading of the book covers should be completed during the review of key words and concepts.** Instructional time cannot be spent simply coloring.

**Instructional Plan**

**Step 1:**

**Key vocabulary in this step:**

* globe, sphere, earth, latitude, longitude, cardinal directions, north, south

**The teacher will:**

* Give each student page 1- the base circle with the North and South Poles.
* Using a globe, remind students that the earth is actually shaped like a sphere.
* Explain that one side of a sphere- is shown as a circle.
* Tell them that the base circle represents the earth.
* Discuss the North and South Poles as the top and bottom points of the earth.
* Explain that during the lesson we will add circles on top of this base as we

study how people divide the earth using lines called latitude and longitude.

**During the discussion the students will:**

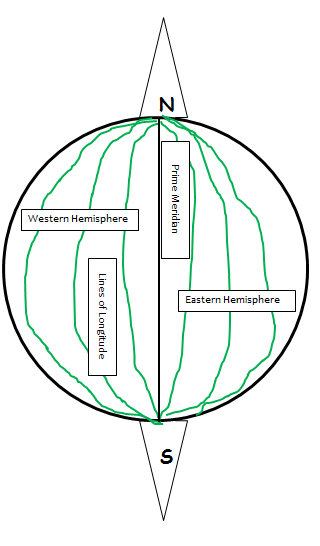
* Cut out the base circle- leaving the triangles for the poles attached.
* Label the North Pole “N” and the South Pole “S.”
* Write their name on the back of this circle.

**Step 2:**

**Key vocabulary in this step:**

* imaginary, vertical, hemisphere, longitude, east, west, Prime Meridian

**The teacher will:**

* Give each student page 2- the circle that is split into the Eastern and Western Hemispheres.
* Help each student turn their circle so that the line is vertical.
* Refer to the N and S already labeled and prompt students to remember the other two cardinal directions.
* Discuss:
  + In order to make it easier to find locations on the globe,

people divide the earth with imaginary lines.

* + Imaginary vertical lines of longitude are used to divide the earth

into east and west sections.

* + The “starting point” for lines of longitude is called the Prime Meridian.
  + The other lines of longitude are used to show how far a place is from

that starting point.

* + The Prime Meridian splits the earth in half east to west.
  + Half of the earth is called a hemisphere.
  + The Prime Meridian creates the Eastern and Western Hemispheres.

**During the discussion the students will:**

* Cut out the circle.
* Glue or tape the circle to the left edge of the base circle

so that opens like a book.

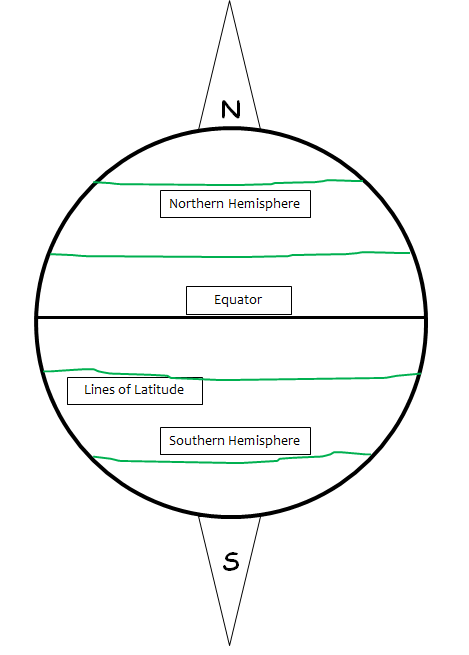
* Follow the teacher’s sample and draw other lines of longitude.
* Cut out the labels on page 2.
* Follow the teacher’s sample and glue the labels in the correct places.

**Step 3:**

**Key vocabulary in this step:**

* imaginary, horizontal, hemisphere, latitude, north, south, Equator

**The teacher will:**

* Give each student page 3- the circle that is split into the Northern and Southern Hemispheres.
* Help each student turn their circle so that the line is horizontal.
* Discuss:
  + In order to make it easier to find locations on the globe,

people divide the earth with imaginary lines.

* + Imaginary horizontal lines of latitude are used to divide the earth

into north and south sections.

* + The “starting point” for lines of latitude is called the Equator.
  + The other lines of latitude are used to show how far a place is

from that starting point.

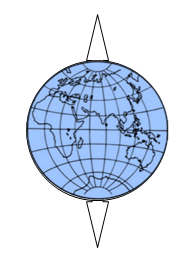
* + The Equator splits the earth in half north to south.
  + Half of the earth is called a hemisphere.
  + The Equator creates the Northern and Southern Hemispheres.

**During the discussion the students will:**

* Cut out the circle.
* Glue or tape the circle to the left edge of the previous page

so that opens like a book.

* Follow the teacher’s sample and draw other lines of latitude.
* Cut out the labels on page 3.
* Follow the teacher’s sample and glue the labels in the correct places.



**Step 4:**

**Review key vocabulary:**

* globe, sphere, earth, latitude, longitude, hemisphere,

north, south, east, west

**The teacher will:**

* Give each student page 4- the globe with latitude and longitude marked.
* Revisit the globe and review that the earth is actually shaped like a sphere.
* Review the key vocabulary through discussion of key concepts.

**During the discussion the students will:**

* Shade the continents and oceans.
* Cut out the two circles.
* Glue or tape the circles to the previous pages to create a front and back

cover for the booklet.

<https://practicalpages.wordpress.com/2010/07/31/geography-learn-about-hemispheres-minibook/>

Idea adapted to meet Oklahoma 2nd grade standards.

**Page 1**

**Base Circle**

**Page 1**

**Base Circle**

**Page 2**

**Western & Eastern Hemispheres**

|  |
| --- |
| Western Hemisphere |
| Eastern Hemisphere |
| Prime Meridian |
| Lines of Longitude |

**Page 2**

**Western & Eastern Hemispheres**

|  |
| --- |
| Western Hemisphere |
| Eastern Hemisphere |
| Prime Meridian |
| Lines of Longitude |

**Page 3**

**Northern & Southern Hemispheres**

|  |
| --- |
| Northern Hemisphere |
| Southern Hemisphere |
| Equator |

**Page 3**

**Northern & Southern Hemispheres**

|  |
| --- |
| Northern Hemisphere |
| Southern Hemisphere |
| Equator |
| Lines of Latitude |

**Page 4**

**Front and Back Cover**

**Each student needs both circles.**

