



## Mapping out a “Peachy” Trip

### National Standards> Social Studies>Geography

#### **NSS-G.K-12.1 The World in spatial terms**

- Understand how to use maps and other geographic representations, tools, and technologies to acquire, process and report information from a spatial perspective.
- Understand how to analyze the spatial organization of people, places, and environments on Earth’s surface.

### Kentucky: Social Studies> Geography Standard

#### **SS-4-G-1**

- Understand that all places on Earth have an absolute and relative location.

#### **SS-4-G-3, SS-5-G-1, SS-6-G-1**

- Use various representations of the Earth (e.g., maps, globes, mental maps) to find and explain human and physical geographic features in Kentucky and regions in the United States; use a variety of tools to obtain and present geographic information (e.g., landforms, natural resources, natural disasters) about the United States and its close neighbors (e.g., Canada and Mexico); examine patterns on Earth’s surface, using geographic tools to identify where things are, how they are arranged, and why they are in particular locations.

### Ohio: Social Studies>Geography Standard

- Use knowledge of geographic locations, patterns, and processes to show the interrelationship between the physical environment and human activity, and to explain the interactions that occur in an increasingly interdependent world.

#### **Benchmark(s)**

##### **Grades 4 & 5**

- A.** Use map elements or coordinates to locate physical and human features on North America.

##### **Grade 6**

- A.** Identify on a map the location of major physical and human features of each continent.

### Some Trip

**James and his friends set off on an unknown journey traveling by way of a giant peach from one continent to another. They were without a compass and map as they floated in, and traveled over the sea. These tools would have been most beneficial to pinpoint exact locations (latitude and longitude) for where one was and for where one was going.**

### Objective

#### **Students will:**

- Demonstrate use of a coordinates and map functions.
- Use coordinates of latitude and longitude to determine the absolute location of specific physical locations.
- Plot a path of travel to guide the course of the Giant Peach from England to the United States.

## **Vocabulary**

- Cardinal directions
- Coordinate grid
- Latitude
- Longitude

## **Materials**

- Blank world Outline Map with latitude, longitude markings (transparency and handouts, 2 per student)
- Latitude/Longitude Ruler (one per student)
- Handout, *A Peach Journey's Coordinates*

## **Activity**

### **Think About It!**

#### **Teacher will:**

- Introduce the definitions and concepts for the vocabulary terms.
- Facilitate student discussion for how one pinpoints exact location for a journey using latitude and longitude measurements.
- Use the blank world outline map transparency to model location of latitude and longitude coordinates.
- Hand out blank maps like the transparency to students to complete with you.
- Select three or four coordinate locations to demonstrate.
- For latitude, find the location for the equator.
- Have students determine if the location is north or south of the equator. Mark N or S on the transparency and have students do the same on their maps.
- Have students determine which two lines of latitude the location is in between.
- Model how to determine the midpoint by splitting the difference between the two lines.
- Have students determine if the location is closer to the midpoint or one of the lines of latitude.
- Have students estimate the degrees latitude, and record the answer on their map.
- For longitude, find the location for the prime meridian.
- Have students determine if the location is East or West of the Prime Meridian. Mark E or W on the transparency and have students do the same on their maps.
- Have students determine which two lines of longitude the location is in between.
- Have students determine the midpoint by splitting the difference between the two lines.
- Have students determine if the location is closer to the midpoint or one of the lines of longitude.
- Have students estimate the degrees of longitude, and record the answer on their map.
- Students may make use of a latitude/longitude ruler to aid calculations and measurements.

#### **Students will:**

- Use the coordinates on the Handout, *A Peach Journey's Coordinate*, to mark the course of the journey of the Giant Peach from England to the United States of America.
- Record latitude and longitude coordinates on the correct map locations, and using the latitude/longitude ruler, calculate how many miles the peach traveled.

### **Performance Assessment**

**Teacher will evaluate students' ability to:**

- Demonstrate use of latitude and longitude coordinates and measurements.
- Plot a course and record on a map, given latitude and longitude coordinates to travel from one place to another.
- Use the map tool, a latitude/longitude ruler to calculate distance.

### **Academic Standards**

Education World> National and State Standards

<http://www.educationworld.com>

Kentucky Department of Education

<http://www.education.ky.gov>

Ohio Department of Education

<http://www.ode.state.oh.us>

National Council of Teachers of English

<http://www.ncte.org>

National Council of Teachers of Mathematics

<http://www.nctm.org>

National Science Teachers Association

<http://www.nsta.org>

National Council for the Social Studies

<http://www.ncss.org>



## A Peach Journey's Coordinate

Name \_\_\_\_\_

James and his friends set off on an unknown journey traveling by way of giant peach from one continent to another. They were without compass and map as they floated in, and traveled over the sea. These tools would have been most beneficial to pinpoint exact locations (latitude and longitude) for where one was, and for where one was going.

### Directions:

You will locate and record the following latitude and longitude coordinates on your world map grid to guide the Giant Peach on its journey from England to the United States of America. You will also calculate, using a latitude/longitude ruler, the distance the peach traveled in miles.

**First:** Locate these continents countries and cities on your world map grid.

- Europe
- England
- Dover
- North America
- United States
- New York City

**Second:** Locate these coordinates on your world map grid.

- Dover, England (a city by the sea)  $51^{\circ} 8' N, 1^{\circ} 19' E$
- New York City, Central Park  $40^{\circ} 47' N, 73^{\circ} 58' W$
- Sharks (*Teacher will create coordinates for their location*)
- Cloud Men (*Teacher will create coordinates for their location*)

