

Into our last week together!

How I wish I was in a classroom with you all. It was so nice to receive your emails last week, it helped remind me that my students are real and that I actually know and respect you all very much.

Before we begin looking at modern mapping technologies, we need to acknowledge a huge leap in history that must be taken. Over the last 2000 years of cartography, humans began to piece together the image of the connected surface of our whole planet. I have created a separate document to honour the great times of discovery and exploration.

I also need to acknowledge that we have followed a very western journey of history. To support a slightly wider world view, I have also included a link to an excellent website listing an evolution of mapping in China.

So Class 11, use today to look through the more recent history of cartography, write up your notes on Longitude into your ML book and complete your migratory animal research task. Work through these to the best of your ability and email me if any challenges arise,

Enjoy your work, Lou

1. Begin by correcting your quiz from Friday, there'll be another tomorrow!
2. Then make your way through the additional PDF I have created and observe how some of the notable historic maps become increasingly accurate.
3. Your **research task on a migratory animal is due tomorrow by 3pm**. Remember that this task is worth 20% of your ML grade and I will be deducting marks each day that it is late.

Your report should be two pages (approx. 300-400 words) of information, including the map and an image or two. Create a bibliography as you go (Harvard referencing).

1. *Research the two places that your chosen animal migrates between. Either find a map on the internet (or create your own), which outlines the path of migration.*
2. *Support your map with a written description of your animal's migration. This could be up to half a page of written notes.*
3. *What physical/physiological traits does your animal have to assist in its migration?*
4. *What are the known reasons for the animal migrating?*

5. *Is there any research into theorising how the animal is able to 'navigate' and locate the same destination every journey?*
6. *Include any additional relevant and interesting information.*

4. On your next blank page of your Main Lesson book, please write the title **LONGITUDE**.

You may write up your answers to the questions from Friday as a paragraph or as dot point answers (full sentences). Whatever best works for you. I have included the questions again to guide you:

Listen to the story of Longitude by Dava Sobel, and comprehensively answer the following questions:

- a. The lines of latitude and longitude seem to 'govern with authority'. In what ways is the world changing below these fixed lines?
- b. Who first placed the equator at 0° Latitude? With what information was this location identified?
- c. What is the Prime Meridian and why is its placement a political decision?
- d. While latitude is governed by the movements of the sun and stars, how is longitude measured? And how can this be measured on a ship?
- e. As the sun travels one hour at the Equator, how many degrees of longitude is travelled to the east or west?
- f. What happens to the distance between lines of longitude as you travel away from the Equator?
- g. What are the challenges of having a precise time device on a ship?
- h. What discoveries were subsequently made during the quest for longitude?
- i. Who was the English clockmaker who invented the device that could carry true time on a ship? What made his clock so successful?

Tomorrow Class 11s, we shall ask the question, "Why is north always at the top of our maps and does it have to be?"

We will also look at the different ways our modern world map is projected, there are many ways of trying to accurately squish a spherical image two-dimensionally!

Until then, go gently, Lou