

# Science Notebooks

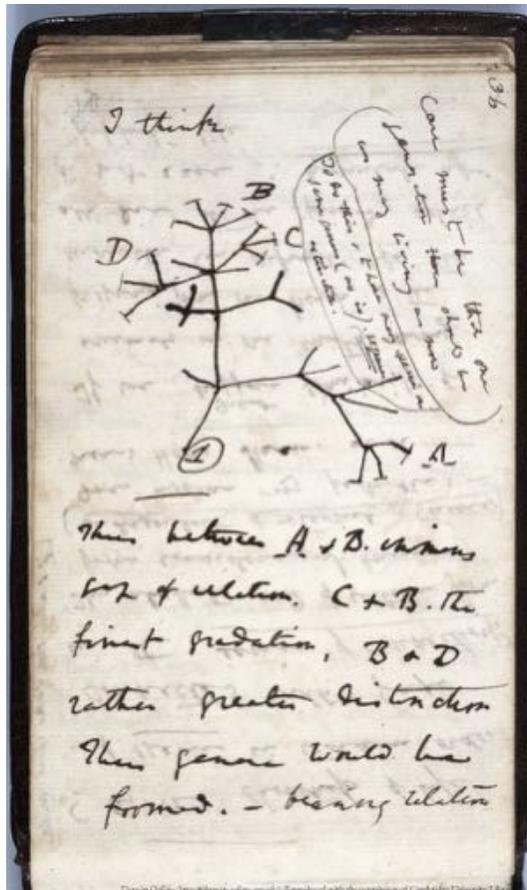
## A Little History

Scientists, naturalist, and students have been keeping science notebooks throughout scientific history. Here are three examples:

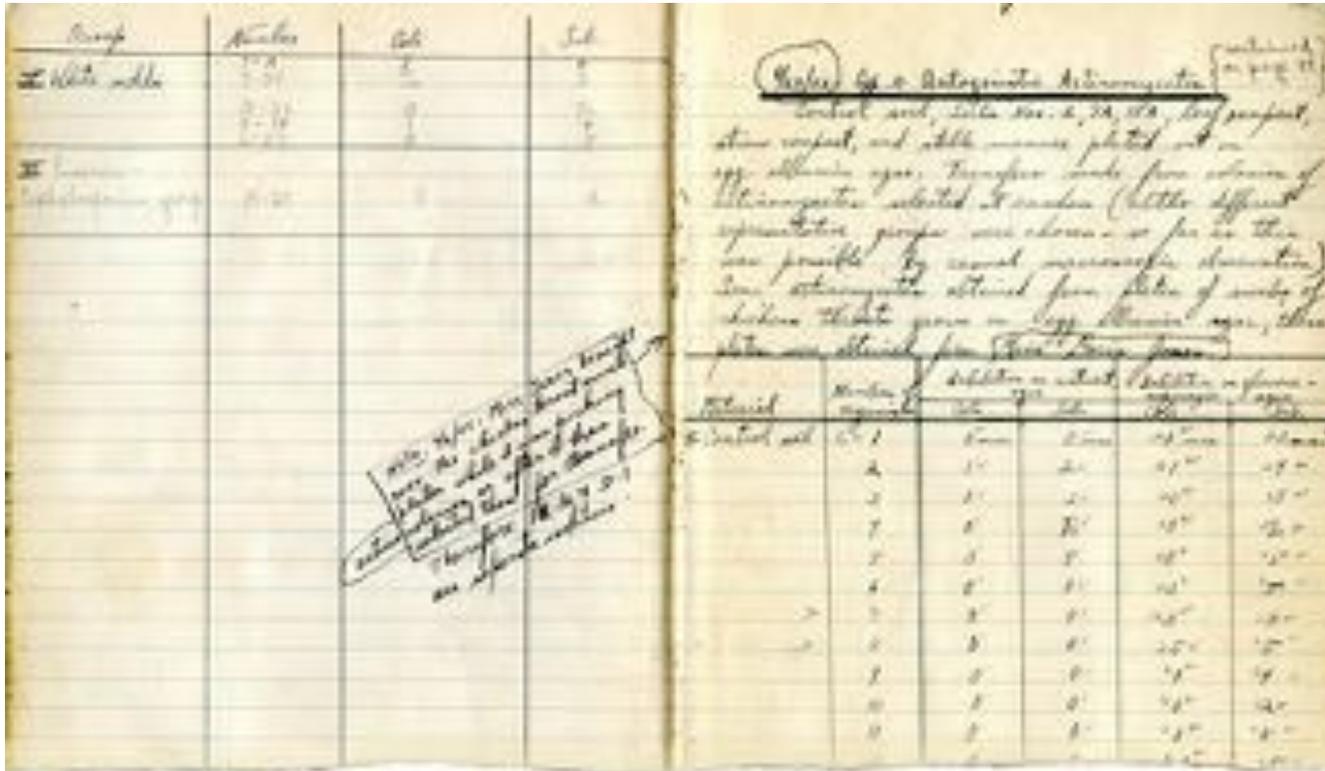
Charles Darwin

1836

Darwin's "Tree of Life" sketch, from his notebook  
Darwin sailed around the world as a naturalist



# Science Notebooks in History



1943 Then-graduate student Albert Schatz's notes on the experiments that led to the discovery of Streptomycin

# Sir Isaac Newton



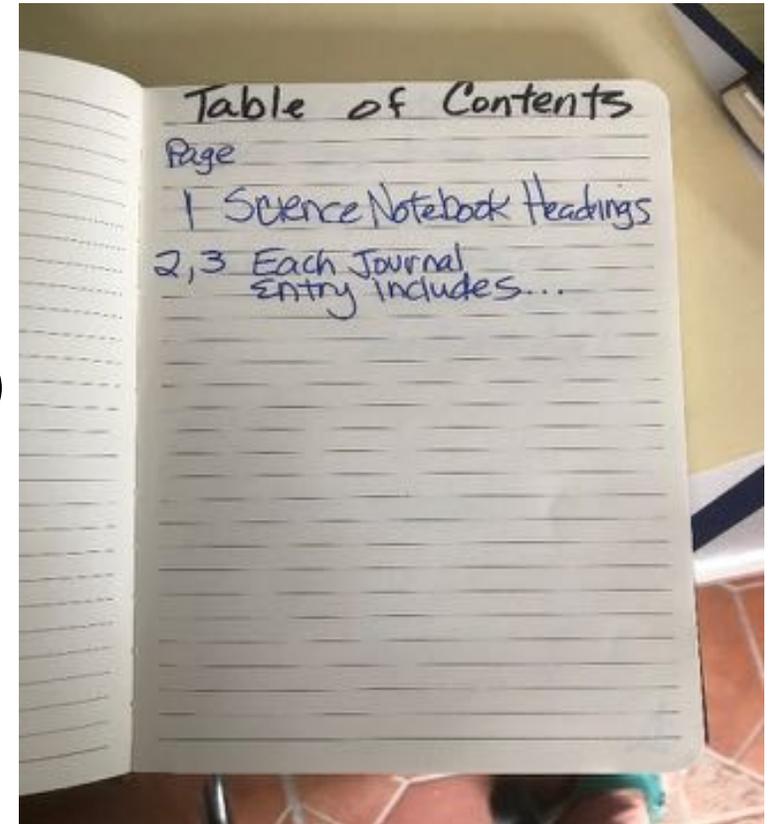
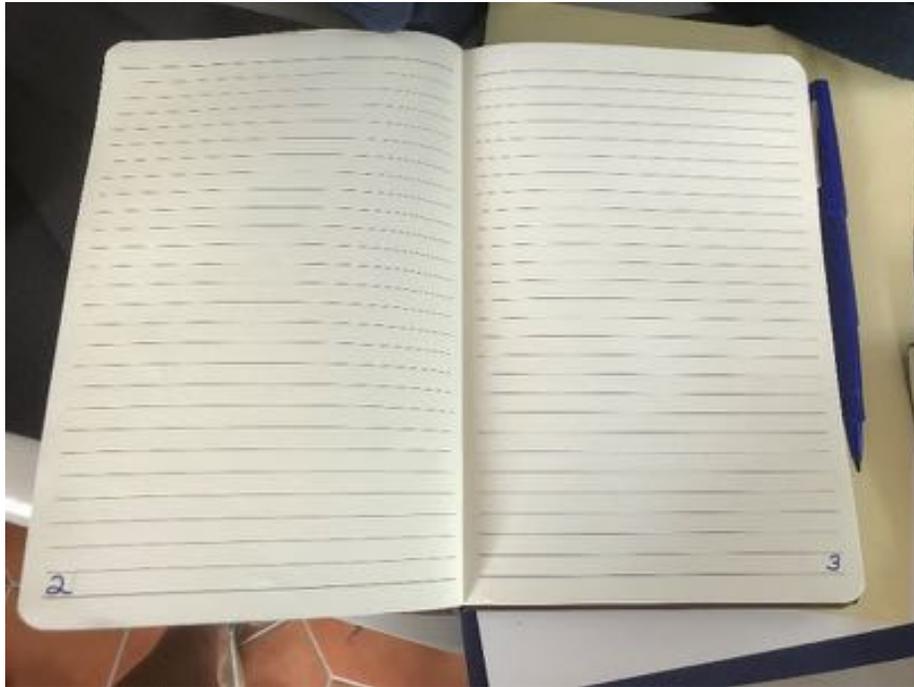
Newton's so-called "Waste Book"  
– the notebook in which he works  
out his ideas for Calculus. 1664

# Science Notebook Supplies

- Regular Pencil
- Colored Pencils
- Sharpener and eraser
- Notebook –
  - Composition book
  - Spiral notebook
  - Sketchpad

# SET UP YOUR SCIENCE NOTEBOOK/JOURNAL

- LEAVE THE FIRST PAGE BLANK (FRONT AND BACK)
- WRITE "TABLE OF CONTENTS" ON NEXT PAGE and skip the next two pages to fill in later
- NUMBER YOUR NOTEBOOK PAGES AFTER THAT (START WITH PAGE 1)

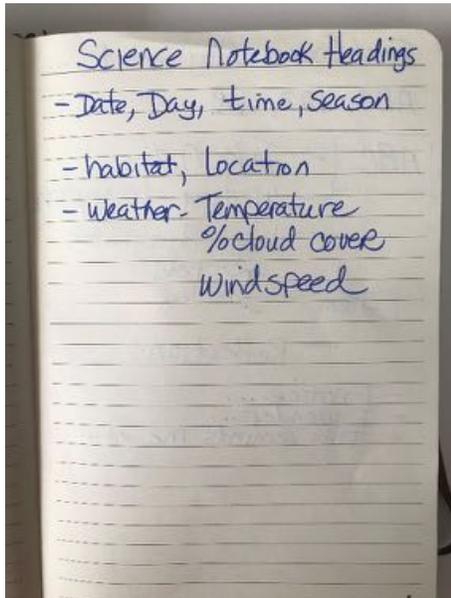


# Copy the Notes

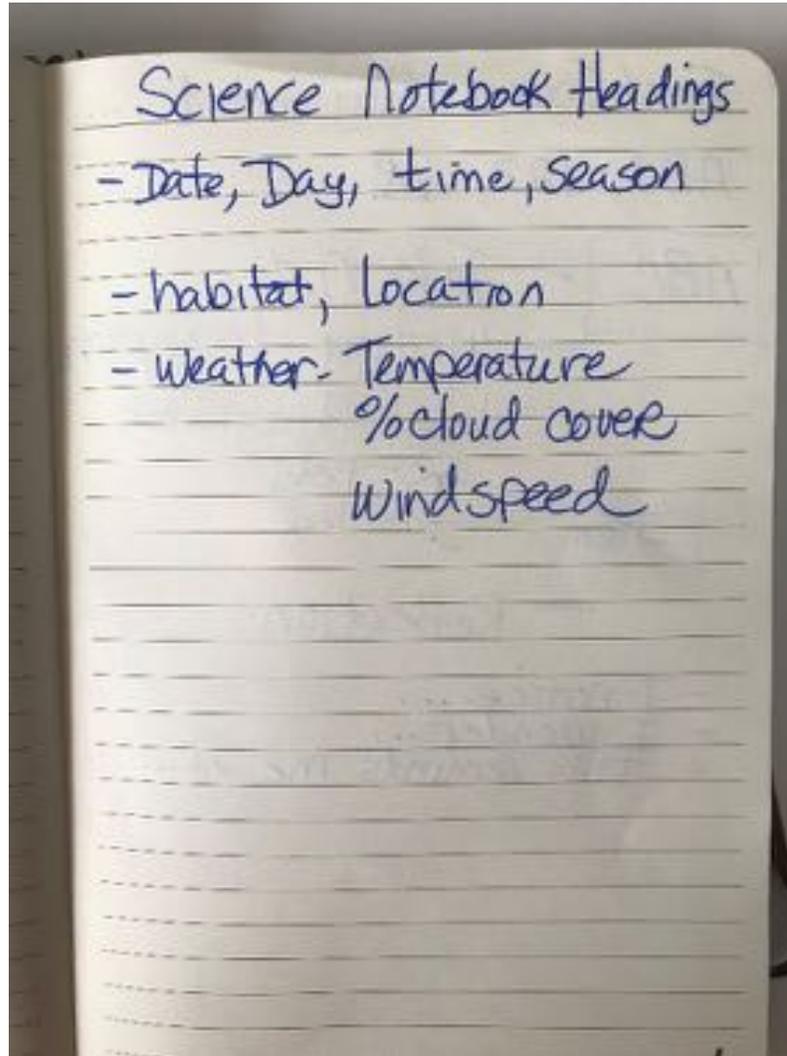
- From the following slides, copy these notes onto your notebook pages.
- Start with Page 1 and go on to page 2 and 3. If you need more pages, keep going.
- You'll complete your table of contents with these entries when you're done copying down the notes.

# On Page 1, Write the following Title: ***SCIENCE NOTEBOOK HEADINGS***

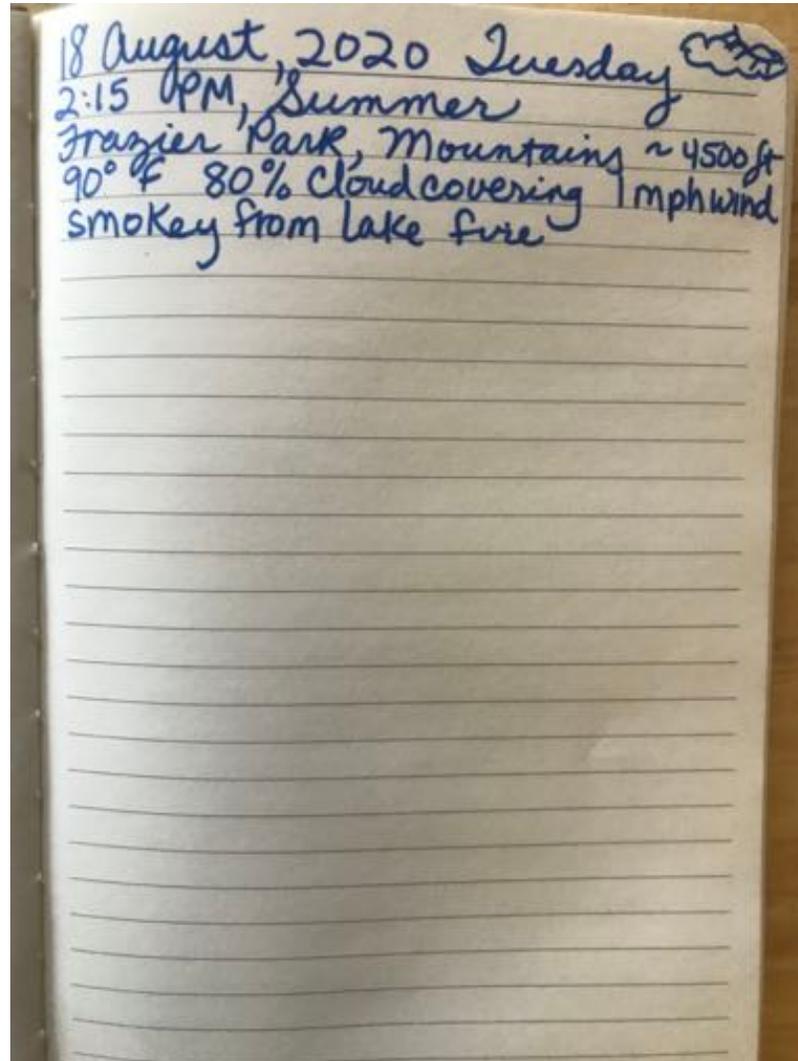
- Head your notebook each time you start a page (This is called Metadata)
  - Date, Day, Time, Season
  - Location, Habitat (example: mountain, grassland, streambed)
  - Weather – Include
    - Temperature (estimate)
    - Wind Speed (it will usually be between 1mph and 10mph)
    - Percent of Cloud Cover (if there is a medium amount of clouds but still blue sky, it might be something like 50%)



Copy these instructions on Page 1 in your notebook.



Science Notebook Heading (Metadata) on each new page will look something like this example:



Page 2 & 3: Write the Following Title:  
*Each Journal Entry Includes...ABC, 123,* 

## **ABC**

- ABC: Take notes, Write Descriptions, Label diagrams, Reflections
  - I Notice...
  - I Wonder...
  - This Reminds me of...
    - (As you do your observations, you will say and write numerous of these sentence frames)
- **Reflection:** At the end of every notebook entry, write a reflection, thinking about what you learned and want to know. Form can be a diary entry, a few sentences, a poem, a drawing, anything. But don't forget to do it.

Continue copying these notes into your notebook.

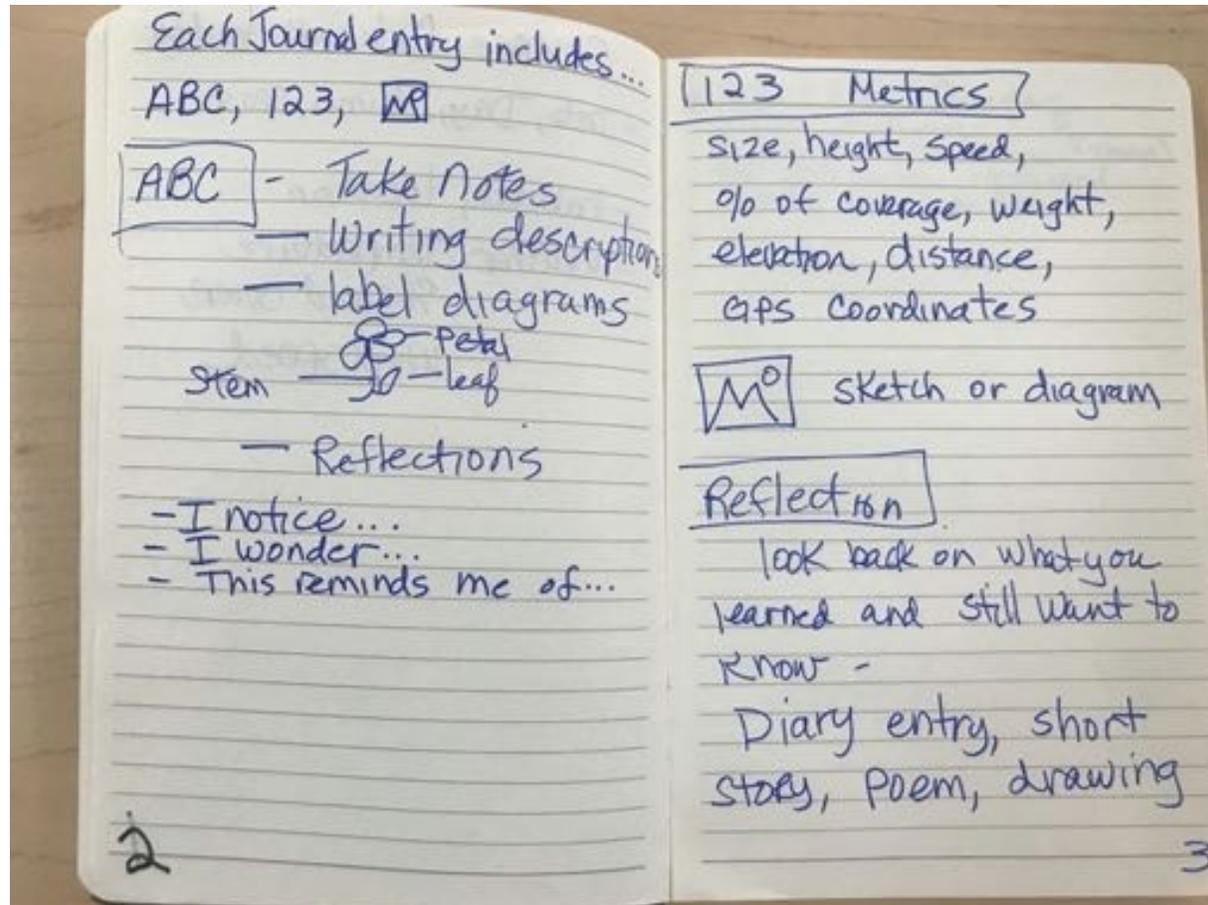
## 123

- 123 : Metrics (measurements)
  - Some metrics are in your heading
  - Examples of some metrics: size, height, speed, elevation, % of coverage, weight, distance, GPS Coordinates



- Sketch, drawing, diagram (remember to label the parts of your diagram)
  - Start with pencil, drawing lightly so you can erase, finish with colored pencil

Page 2 & 3 Should look something like this:



Now fill in your Table of Contents  
with Page 1, 2, 3

