Annoucements

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(An option beyond summer research)

CAREERS & OPPORTUNITIES • STUDENT PROGRAMS

OLA | GOOGLE 2027 INTERNSHIPS

Google 2027 Summer Internships

Explore technical and business internship roles — Most applications are due by October 9.

Application Timeline & Open Roles

- **Key Application Deadline:**
  Most applications are due by Oct. 9.
- **Example Internship Roles:**
  Technical Program Management (TPM)
  Product Management (PM) & Business
  Software Engineering (SWE)
  Hardware Engineering & Security Engr.
  User Experience (UX) Design & Research
- **Next Steps & Preparation:**
  Prepare your resume, review role qualifications, and apply early.

Official Application Portal

- **How to Apply:**
  Visit the Google Careers internship portal to browse openings, location preferences, and eligibility criteria.
- **Application Tips:**
  - You may apply for up to 3 jobs every 30 days.
  - Highlight key technical projects & leadership.
  - Submit early before the Oct. 9 deadline.

Direct Application Link:
https://www.google.com/about/careers/applications/internships?e=72477625

Google Cloud

Coll: Joe Lazio (NASA Jet Propulsion Laboratory)

The Sun Radio Interferometer Space Experiment (SunRISE) is a NASA Mission designed to reveal aspects of how solar energetic particles (SEPs) are accelerated at coronal mass ejections (CMEs) and how they propagate in space. SunRISE is a constellation of six identical small spacecraft (CubeSats) that will form a space-based radio telescope. Each spacecraft carries a payload designed to receive simultaneously signals from solar radio bursts and global navigation satellite system satellites. By tracking the locations of solar radio bursts over time, SunRISE will address enduring questions in space plasma physics, some dating back to the early days of radio astronomy, regarding the acceleration and transport of SEPs. The six spacecraft will orbit Earth. I describe the implementation of SunRISE, illustrating how the combination of on-board and ground operations and processing are required to achieve a space radio telescope. **Wednesday, 2:30, G09**

Are you enjoying this class? Would you like to talk about it to a high school student physics class in the state or nearby?

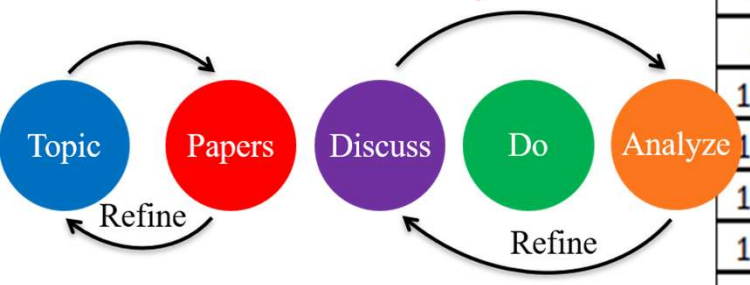
- I can cover your mileage.
- For example, to Pittsburgh and back would be ~$150 based upon mileage. Closer places would be less, and further more.
- Could be your high school or somewhere else. I need evidence that you presented (emails from teacher for example)
- Need to tell me in advance.

Get in these late assignments! (Midterm grades due Oct. 7.)

Important Papers (2-5) 1-2 sentence summary and why relevant to your work? (I don't need them printed.)

This Thursday:
Project Proposal!!!

I'm extending today's reading to Thursday, but proposal still due Thursday.



Date	293 Topic	Homework (with goals color)
18-Aug	Pre-Surveys; What is this Class About?	Partner/Scheduling Info
20-Aug	Distinguishing Types of Magnetism	Reading 1 on Perusall
25-Aug	Holcomb Group Discovery	Reading 2 on Perusall
27-Aug	MOKE versus Other Magnetometry	Watch Video on Perusall
1-Sep	Project Planning: What Kinds of Magnetic Measurements	Syllabus Read/Agree
3-Sep	Finding Published Papers Relevant to Your Project	Bring a Related Paper to Class
8-Sep	Reading and Evaluating Papers	
10-Sep	Best Practices with Lab Notebooks	University Safety Requirement
15-Sep	MOKE Hands-On Demonstration	
17-Sep	VSM Hands-On Demonstration	Important Papers. Why? (2-5)
22-Sep	How to Give Peer Feedback and Group Project Planning	
24-Sep	Planning Group Oral Reports and Peer Grading	~~Mini Reports (in class)~~
29-Sep	Group Project Planning and Refinement	Quality Reading on Perusall
1-Oct	Assessing the Quality of Materials	Project Proposal
6-Oct	Best Practices with Graphing	Good/Bad Graphs
8-Oct	Fall Break (No Class)	
13-Oct	Introduction to Excel: Spreadsheets, Graphing and Fitting	
15-Oct	Understanding and Processing Your Data	Lab Notebook Check-In
20-Oct	Building a Story with Your Data When It Isn't Obvious	
22-Oct	Check-In and How Are Materials Grown	
27-Oct	How to Give a Good Talk	
29-Oct	Peer Evaluation of Lab Notebooks (Bring Notebooks)	
3-Nov	Election Day (Vote If You Can)	
5-Nov	Project Speed Dating: Share Your Project with Others	Graphs of Your Data
10-Nov	Time for groups to Discuss Presentation/Data Planning	
12-Nov	Eight Minute Group Presentations	Presentations
17-Nov	Eight Minute Group Presentations	Presentations
19-Nov	How to Write a Good Abstract	
1-Dec	Ask Your Final Questions of Instructor, Partners or Class	
3-Dec	Discussion of Research and Scholarship Opportunities	Abstract & Notebook

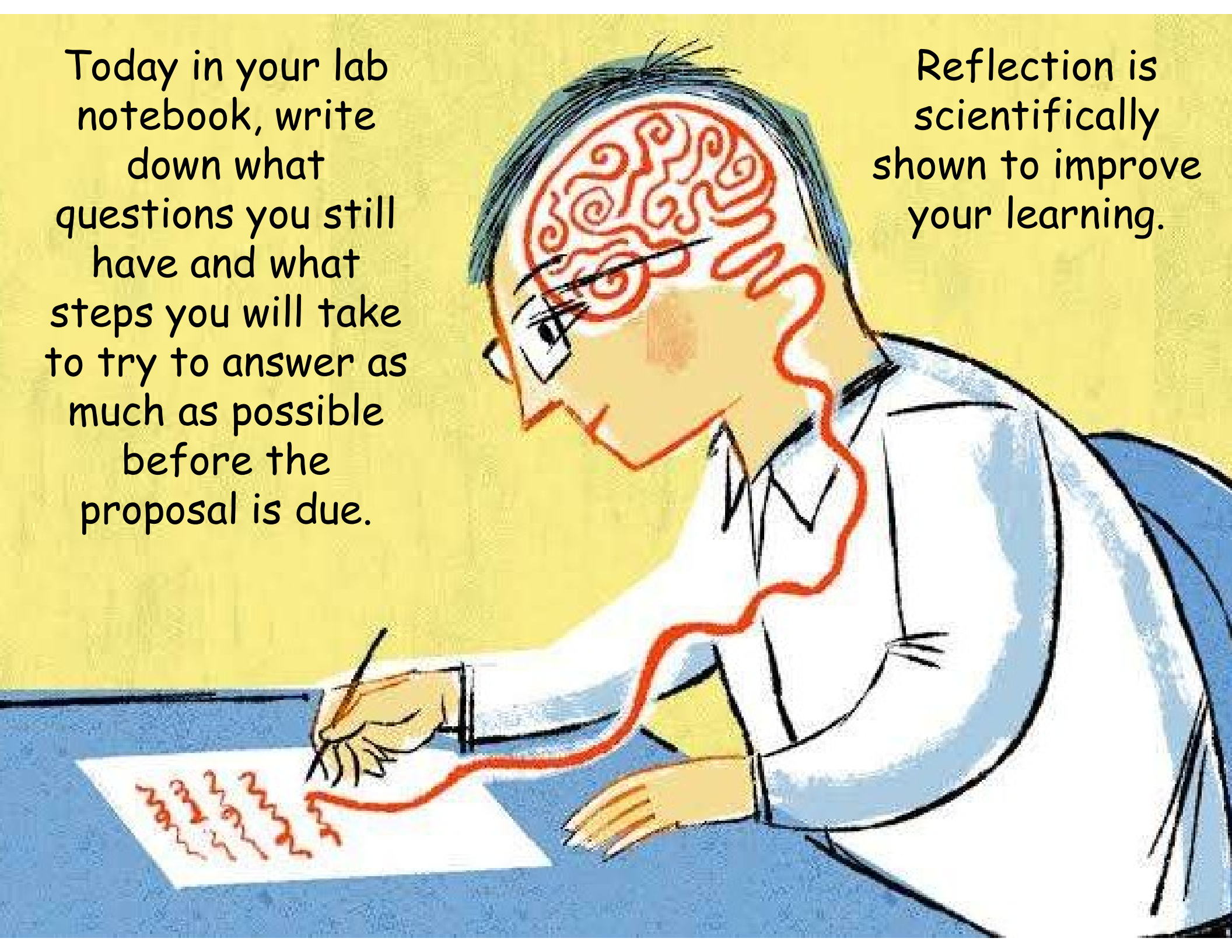
Printed Project Proposals due Thursday:

- What material will you measure? Why scientifically is this material interesting?
- Why do you think this work could be important?
- What kinds of magnetic measurement planned? What temperatures or applied fields do you think make sense to look at? Why do you think that?
- What do you expect to observe?

Topic/question	Project proposal	Early lab notebook	Graphing (caption)	Presentations	Abstract	Final Notebook
Motivation: Why is this work important?	✓	✓	✓	✓	✓	✓
What will/did you do?	✓		✓	✓	✓	✓
Discussion of (expected) results	✓			✓	✓	✓
Background/novelty		✓		✓	✓	✓
References				✓		✓

It's ok if you don't get it perfect on the first try! We'll keep coming back to these major questions as you get feedback.

Today in your lab notebook, write down what questions you still have and what steps you will take to try to answer as much as possible before the proposal is due.



Reflection is scientifically shown to improve your learning.