

Rice Short Workshop Agenda

Dates: Monday, June 19 - Wednesday, June 21

Location: Rice University

Day 1

Session 1	(20 min) Welcome • Introductions • Money → attendance • Register using this form. (30 min) Norms discussion and activity • student hat first, then teacher hat • Hopes and Fears survey • In groups: ○ Norms poster from APS STEP-UP ○ Fermilab norms poster ○ Which poster items resonate with what you're doing this week? ○ Which poster would you hang in your classroom? (10 min) Our philosophy re:coding • Pair Programming (10 min) BREAK (2 hrs) Driver/navigator time • Intro to coding • Remember to MAKE A COPY of the notebooks ○ This will automatically create a folder in Drive • If you finish early, choose one of these notebooks to explore ○ Earthquakes ○ Sun Position ○ Elements ○ Sunspots
Session 2	(1.5 hour) Continue driver/nav work from session 1 Position Graphs Notebook (15 min) All hands meeting • Google can be the best programming help • Daily feedback survey

Day 2

Session 1	(15 min) All Hands meeting • Successes / challenges from yesterday's notebooks (45 min) Particle Physics review (2 hr) Driver navigator time Muon Mass • Calculate the mass of a muon using CMS data • Take breaks as needed
Session 2	(15 min) share out from session 1 (30 min) Switch to Teacher Hat mode • What most schools don't teach video • Wrapping paper & surface area example implementation • Arrays sort of (1 hour) • Implementation advice on CODINGinK12.org • Brainstorm lesson ideas • Start on implementation plan (15 min) All Hands Meeting • Daily feedback survey

Day 3

Session 1	(20 min) All Hands • Thoughts from yesterday • • group photo later this AM • Ideas for optional breakouts later ○ Supporting marginalized students? ■ STEP-UP is amazing ○ How to do this without Google access? ■ On your computer: Install Anaconda (includes Jupyter, Python, & all your favorite modules) ■ Free online: Repl.it (2 hrs) Continue working on implementation plan • Brainstorm and data search • work individually or in groups
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	• develop a plan for implementation with your students • use whatever format or structure you'd like • A good place to include your implementation plan is in your coding notebook. • Ask a QuarkNet Fellow to add your link to the list below • Be prepared to have others look at your implementation plan and coding activity at the beginning of Session 2. • Upload your implementation plan here (10 min) Group photo Implementation plans and coding activities
Session 2	(40 min) Share plans for implementation in groups • Assign a timekeeper since this timeline is tight • 5 minutes of each camper "Driving" one notebook; 5 minutes of feedback/questions • Participate as a student might. The author can make their own notes with comments/feedback. • Briefly decide upon ONE activity (of the four) that you want to "showcase" later. (45 min) Coding Activity Showcase • (3 min each) Showcasers will briefly summarize their lesson, and mention some of the feedback received during the small group session (10 min) Housekeeping and sign off • Daily feedback survey