

Rice Short Workshop Agenda

Dates: Monday, June 19 - Wednesday, June 21

Location: Rice University

Day 1

Session 1	<p>(20 min) Welcome</p> <ul style="list-style-type: none">● Introductions● Money → attendance● Register using this form. <p>(30 min) Norms discussion and activity</p> <ul style="list-style-type: none">● student hat first, then teacher hat● Hopes and Fears survey● In groups:<ul style="list-style-type: none">○ 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? <p>(10 min) Our philosophy re:coding</p> <ul style="list-style-type: none">● Pair Programming <p>(10 min) BREAK</p> <p>(2 hrs) Driver/navigator time</p> <ul style="list-style-type: none">● Intro to coding● Remember to MAKE A COPY of the notebooks<ul style="list-style-type: none">○ This will automatically create a folder in Drive● If you finish early, choose one of these notebooks to explore<ul style="list-style-type: none">○ Earthquakes○ Sun Position○ Elements○ Sunspots
Session 2	<p>(1.5 hour) Continue driver/nav work from session 1</p> <p>Position Graphs Notebook</p> <p>(15 min) All hands meeting</p> <ul style="list-style-type: none">● Google can be the best programming help● Daily feedback survey

Day 2

Session 1	<p>(15 min) All Hands meeting</p> <ul style="list-style-type: none">• Successes / challenges from yesterday's notebooks <p>(45 min) Particle Physics review</p> <p>(2 hr) Driver navigator time Muon Mass</p> <ul style="list-style-type: none">• Calculate the mass of a muon using CMS data• Take breaks as needed
Session 2	<p>(15 min) share out from session 1</p> <p>(30 min) Switch to Teacher Hat mode</p> <ul style="list-style-type: none">• What most schools don't teach video• Wrapping paper & surface area example implementation• Arrays sort of <p>(1 hour)</p> <ul style="list-style-type: none">• Implementation advice on CODINGinK12.org• Brainstorm lesson ideas• Start on implementation plan <p>(15 min) All Hands Meeting</p> <ul style="list-style-type: none">• Daily feedback survey

Day 3

Session 1	<p>(20 min) All Hands</p> <ul style="list-style-type: none">• Thoughts from yesterday•• group photo later this AM• Ideas for optional breakouts later<ul style="list-style-type: none">○ Supporting marginalized students?<ul style="list-style-type: none">■ STEP-UP is amazing○ How to do this without Google access?<ul style="list-style-type: none">■ On your computer: Install Anaconda (includes Jupyter, Python, & all your favorite modules)■ Free online: Repl.it <p>(2 hrs) Continue working on implementation plan</p> <ul style="list-style-type: none">• Brainstorm and data search• work individually or in groups
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	<ul style="list-style-type: none"> ● 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 <p>(10 min) Group photo</p> <p>Implementation plans and coding activities</p>
<p>Session 2</p>	<p>(40 min) Share plans for implementation in groups</p> <ul style="list-style-type: none"> ● 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. <p>(45 min) Coding Activity Showcase</p> <ul style="list-style-type: none"> ● (3 min each) Showcasers will briefly summarize their lesson, and mention some of the feedback received during the small group session <p>(10 min) Housekeeping and sign off</p> <ul style="list-style-type: none"> ● Daily feedback survey