

QuarkNet Survey

We appreciate your participation in this survey and we will use this information to inform the funders of the program as well as to help guide our thinking about program changes and improvements. Please take the time to tell us about your QuarkNet experience(s) and how and in what ways your QuarkNet engagement may have helped to change or improve your classroom instruction. Please answer all questions to the best that you can; your answers will be kept confidential. We ask that you provide your name for tracking and follow-up purposes only.

1. Today's Date

2. Your Email Address (*optional*)

3. Your Name (*optional*)

4. Your Gender

5. For how many years (approximately) have you participated in QuarkNet (including today or your most recent participation)?

6. What is the name/brief description of the QuarkNet program/workshop that you participated in today (or most recently)?

7. What is the name of the QuarkNet center (university/institution) where you have participated?

8. What is the name of the school (or district) where you teach?

9. What best describes the location of your school?

Rural Urban, central city Urban Suburban

10. For how many years have you been at this school?

11. How many years have you been teaching?

12. Do you teach physics?

Yes No

13. If yes, please specify year (e.g., 9th, 10th) and whether General or Conceptual, AP, Honors.

14. Can we contact you for a follow-up interview to talk with you about your approach to teaching?

Yes No

Other (please specify)

2019 QuarkNet Teacher Survey

Your Participation in QuarkNet Workshops/Programs

15. Which QuarkNet Workshops or Programs have you participated in?
(Check all that apply. If not on the list, please provide a brief description.)

- Data Camp
- ATLAS Data Workshop
- CMS Data Workshop
- CMS e-Lab Workshop
- Cosmic Ray e-Lab Intro Workshop
- Cosmic Ray e-Lab Advanced Topics Workshop
- Neutrino Data Workshop
- ATLAS Masterclass
- CMS Masterclass
- Neutrino Masterclass
- CERN Summer Program
- W2D2
- International Cosmic Day
- International Muon Week
- Other (please specify)

16. Of these, which do you think have been most helpful to you in your teaching? *Please briefly describe why.*

2019 QuarkNet Teacher Survey

Your Use of the Data Activities Portfolio

The Data Activities Portfolio is QuarkNet's online compendium of instructional materials and suggested instructional pathways.

17. Have you used any of the activities in the Data Activities Portfolio in your classroom?

Yes No

18. Please give us an example(s) of which of these activities in the Data Activities Portfolio you have used most often and/or that you think have been most helpful in teaching physics related to content and/or pedagogy.

19. Would you recommend (or have you recommended) the Data Activities Portfolio to other high school physics or physical science teachers?

Yes No

20. Please tell us why you would or would not recommend instructional materials in the Data Activities Portfolio.

2019 QuarkNet Teacher Survey

Your Assessment of QuarkNet

Please rate the following strategies based on your current QuarkNet program experience and, if applicable, on your previous involvement in QuarkNet programs to date. If you have participated in QuarkNet for many years, please respond based on what you think the cumulative effect of this participation has been over the past two years.

22. QuarkNet provides opportunities for me to:

Poor Fair Average Good Excellent N/A

a. Engage in project-based learning that models guided-inquiry strategies.

b. Share ideas related to content and pedagogy.

c. Review and select particle physics examples from the Data Activities Portfolio instructional materials.

d. Use the pathways, suggested in the Data Activities Portfolio, to help design classroom instructional plan(s).

e. Construct classroom implementation plan(s), incorporating experience(s) and Data Activities Portfolio instructional materials.

f. Become aware of resources beyond my classroom.

23. Please use the space below to tell us anything you would like us to know regarding your ratings of the strategies mentioned above.

26. Please use the space below to tell us anything you would like us to know regarding your ratings of the big-picture strategies mentioned above.

30. Now, indicate the degree to which you think QuarkNet has contributed to your implementation of these instructional strategies in your classroom.

Very High High Moderate Low Very Low N/A

a. Use active, guided-inquiry instructional practices that align with science practice standards (NGSS and other standards).

b. Use instructional practices that model scientific research.

c. Illustrate how scientists make discoveries.

d. Demonstrate how to use, analyze and interpret authentic data.

e. Demonstrate how to draw conclusions based on these data.

f. Become more comfortable teaching inquiry-based science.

2019 QuarkNet Teacher Survey

Your Assessment of QuarkNet (con't.)

31. Please respond to the following statements.

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
a. I use resources (including QuarkNet resources) to supplement my knowledge and instructional materials and practices.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. I have increased my science proficiency.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. I have developed collegial relationships with scientists and other teachers.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. I think my students have become more comfortable with inquiry-based science.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

33. Now, indicate the degree to which QuarkNet (either because of your participation and/or theirs) has contributed to your students' engagement. QuarkNet has helped my students to:

	Very High	High	Moderate	Low	Very Low	N/A
a. Discuss and explain concepts in particle physics.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Discuss and explain how scientists develop knowledge.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Engage in scientific practices and discourse.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Use, analyze and interpret authentic data.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Draw conclusions based on these data.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

34. Please use the space below for anything else you would like us to know about your QuarkNet experience or your approach to teaching science in your classroom. *Thank you for your participation. We appreciate it!*