

## UPDATE: QuarkNet Teacher Survey

**IMPORTANT. Please complete this UPDATE only if you have completed the 2019 QuarkNet Teacher Survey, which you should complete only once. Please answer all questions (a total of 10) 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. Thank you for your participation, we appreciate it!**

1. Today's Date

2. Your E-mail Address (Optional)

3. Your Name (Optional but very helpful to know)

4. What is the name of the QuarkNet Center where you have participated today (or most recently)?

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The next set of questions asks about how you intend to use (or have used) QuarkNet content and materials as a teacher in your classroom.

5. Briefly describe how you intend to incorporate (or have incorporated) your QuarkNet experiences into your classroom (e.g., Cosmic Ray, LHC, neutrinos, e-labs; masterclass) when teaching, for example, conservation laws, uncertainty, the standard model or something else.

6. Using QuarkNet content and materials in my classroom, when teaching physics (or related science) I am able to: (*Check all that applies.*)

|   | Almost Always         | Very Often            | Sometimes             | Not Very Often        | Rarely                | N/A                   |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| a. Discuss and explain concepts in particle physics.  | <input type="radio"/> |
| b. Engage in scientific practices and discourse.  | <input type="radio"/> |
| c. Use particle physics examples, including authentic data, when teaching subjects such as momentum and energy. | <input type="radio"/> |
| d. Review and use instructional materials from the Data Activities Portfolio (DAP).                             | <input type="radio"/> |
| e. Select (DAP) lessons guided by suggested sequencing.   | <input type="radio"/> |
| f. Facilitate student investigations that incorporate scientific practices.                                     | <input type="radio"/> |

7. To Continue: Using QuarkNet content and materials in my classroom, when teaching physics (or related science) I am able to: (Check all that applies.)

|  | Almost Always         | Very Often            | Sometimes             | Not Very Often        | Rarely                | N/A                   |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| g. Use active, guided-inquiry instructional practices that align with science practice standards (NGSS and other standards). | <input type="radio"/> |
| h. Use instructional practices that model scientific research.   | <input type="radio"/> |
| i. Illustrate how scientists make discoveries.   | <input type="radio"/> |
| j. Demonstrate how to use, analyze and interpret authentic data.   | <input type="radio"/> |
| k. Demonstrate how to draw conclusions based on these data.  | <input type="radio"/> |
| l. Become more comfortable teaching inquiry-based science.   | <input type="radio"/> |

Other (please specify)

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The last set of questions asks about the use of activities from the Data Activities Portfolio, your perceptions about student engagement, and final thoughts.

8. Which activities from the Data Activities Portfolio have you used (or will use) in your classroom? (Please list up to three activities. If you don't plan or haven't used these activities, please provide a short explanation as to why not.)

9. Using QuarkNet content and/or materials, which of these behaviors do you think your **students** will be able to do (or are able to do) in your classroom? (Check all that applies.)

|  | Almost Always         | Very Often            | Sometimes             | Not Very Often        | Rarely                | N/A                   |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| a. Discuss and explain concepts in particle physics.     | <input type="radio"/> |
| b. Discuss and explain how scientists develop knowledge. | <input type="radio"/> |
| c. Engage in scientific practices and discourse.         | <input type="radio"/> |
| d. Use, analyze and interpret authentic data.            | <input type="radio"/> |
| e. Draw conclusions based on these data.                 | <input type="radio"/> |

Other (please specify)

10. What else would you like to tell us about your QuarkNet experience as you reflect on applications in your classroom?