QFT-Primary Source Lesson Plan Template\*

*\*Feel free to edit, adapt, or amend this template as is most helpful to you*.

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| **LESSON OVERVIEW** | | | |
| **Name: Thomas David Akpa** | **Grade: 9-12** | **Subject: Physics** | **Location: Minna, Nigeria** |
| **Context & Purpose:**  *Share your content/topic and/or teaching and learning objectives for this lesson and where (beginning, middle, end) in the unit or learning cycle this lesson falls.*    The topic my students will be learning is Heat Energy: Temperature and its Measurement. My aim is to achieve the following objectives   * Explain historical account on why Fahrenheit choose 32 ºF as the Lower Fixed Point for calibration of his thermometer scale * Explore a prepared dummy web page to learn about variant of Thermometer scales | | | |
| **Lesson Procedure:** *Share the sequence of learning activities before, during, and after the QFT*   1. Students will look at an image of thermometer and develop questions 2. Student will follow a modified QFT procedure. They will be grouped in four per table in our ICT centre afterward share their questions by presenting it to the class | | | |
| **Next Steps (i.e. how student questions will be used after the QFT):** *Share your tentative plans for using student questions to drive subsequent learning*   * Students will read lesson note in a dummy website in order for find answers to their question * They will tick a checkmark on the questions that were answered * A test will be administered to the students * We will have discussion during class session based on their questions that were not answered after reading lesson note in a dummy website. | | | |
| **Question Focus:** *Must include at least one primary source from loc.gov. Whenever possible, please embed the image/primary source here AND include the link. Include additional text or caption only if it is part of your QFocus.*  https://tile.loc.gov/image-services/iiif/service:gdc:dcmsiabooks:me:as:ur:em:en:ts:fo:rh:00:ma:ss:measurementsforh00mass:measurementsforh00mass_0030/0,0,2645,4467/236,/0/default.jpg  **Digital Id**  <http://hdl.loc.gov/loc.gdc/scd0001.00190673510>  **LCCN Permalink**  <https://lccn.loc.gov/ltf91076158> | | **Reflect on your QFocus:** *You might consider why you chose this image, alternative QFocus options, earlier QFocus drafts or process you went through to develop it, etc.*  *How do we use thermometer?*  *How do thermometer measure temperature of substance?*  *Why thermometer do have two scales?*  *What is the purpose of the bulb?*  *What is Celsius?*  *What is Fahrenheit?*  *What are the numbers on the glass of the thermometer are for?* | |
| **Tailoring Instructions:** *Share any adaptations or tailoring to the standard QFT process that you are planning.*   * **Reflection Questions:**   Students will share insight for using QFT | | | |

While you are not required to implement your lesson plan to complete the “Teaching Students to Ask Their Own Primary Source Questions” course, we hope that you do! If you do have a chance to implement your lesson plan prior to posting it in the TPS Teachers Network Question Formulation Technique for Primary Source Learning group [album](https://tpsteachersnetwork.org/the-question-formulation-technique-qft-for-primary-source-learning/qft-primary-source-lesson-plans-july-2021), please consider adding and sharing some of the information below in addition to your plan above:

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| **LESSON OUTCOMES** |
| **Student Questions:** |
| **Student Reflections:** |
| **TEACHER REFLECTIONS** |
| **Reflect on your lesson design and how well it achieved your objectives.** |
| **Which student questions stood out to you? Why?** |
| **Overall, what did you learn from this experience? What questions do you now have?** |