**Inquiry Tool Template**

Inquiry is a prominent component of teacher education programs across Europe. It can be implemented in different stages. While using the inquiry-based investigations tool, the main steps will be:

1- Identify a Problem

2- Identify Phenomena

3- Explore Phenomena

4- Explain Phenomena

5- Plan new Investigations

Several guiding questions for each step are presented in Table 1.

Table 1. Guidelines for Supporting Inquiry

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| **How to Identify, Explore and Explain the Phenomena?** | |
| **Identify the Phenomena** | What is the big idea you are exploring?  Which phenomena will you explore during the investigation?  What is your dependent variable?  What is your independent variable? |
| **Explore the Phenomena** | What type of data did you collect?  Why did you collect data?  When did you start collecting data?  When did data collection end? |
| **Explain the Phenomena** | What are your main findings?  What are your friends’ findings?  What are some similarities/differences?  Create a model/an explanation with using your data and your friends’ data |