**Bacteria Inquiry (Chapter 10 S. 1 & 2)**

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

P. \_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**State Standard**

**Standard**: 7.3S.2 Organize, display, and analyze relevant data, construct an evidence-based explanation of the results of an investigation, and communicate the conclusions including possible sources of error.

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| Learning Target | Mastery | Advanced | Meets | Approaching | Beginning |
| **I CAN** identify characteristics of bacteria and display collected data and explain the results. | **Thoroughly** identify characteristics of bacteria & display collected data and explain the results **and explain in detail a different bacteria experiment that this investigation has led you to.** | Mostly identify characteristics of bacteria and display collected data and explain the results. | Somewhat identify characteristics of bacteria and display collected data and explain the results. | Struggling to identify characteristics of bacteria and display collected data and explain the results. | Wasn’t able to or didn’t make an attempt to identify characteristics of bacteria and display collected data and explain the results. |

The following statements are how to achieve \***Advanced** or \***Meets** for this Learning Target:

**** Identify characteristics of bacteria.

**** Collect, record and display bacteria data collected.

**** In this analysis and conclusions you will:

* give an overall description of what happened,
* tell about your hypothesis (accept or not accept,)
* describe how the observations were different on the different days,
* describe the look (observation) of the petri dish (colors, fungus, spreading into other sections),
* discuss other things that could influence the experiment (like touching cotton swabs, or opening the dish),
* tell how you would improve the experiment.

TO EARN MASTERY, COMPLETE THE ABOVE THOROUGHLY AND EXPLAIN IN DETAIL THE FOLLOWING:

* discuss an experiment that is different than this but uses the same ideas (another good bacteria experiment).