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| **Mission 5 Assignment Log** | **Name:** |
| **Pre-Mission Preparation** | |
| In the last mission, you learned about analog and digital devices. Explain the difference between analog and digital. |  |
| In this mission you will set up an alert system. What are some things that might cause an alarm in a rocket living space? |  |
| **Mission 5 Checks** | |
| Objective #1  You will be coding a continuous loop during this mission. What tasks will be included in the loop? |  |
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| Objective #2  What is “frequency”?  What is “duty-cycle”? |  |
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| Objective #3  What does REPL stand for?  What are two things the console panel lets you do? |  |
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| Objective #4  What information does the temperature sensor return? What has to happen to the raw data? |  |
| Objective #5  Summarize the temperature alerting system; explain how it works. |  |
| Objective #6  During the first part of the objective, you look at all the values of the sound sensor. Record the range of values for a “normal” range of sound in your environment.  Modifying the code to print only values outside the normal range. Record some data. |  |
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| Objective #7  Summarize the EMA calculation; explain how it works. |  |
| Objective #8  Explain how the sound sensor alert is different from the temperature sensor alert. |  |
| Objective #9  Explain how “display.print()” is different from “print()”. |  |
| **Post-Mission Reflection** | |
| What is one new thing you learned from this mission? |  |
| What is something you learned about your classmates while working on this mission? |  |