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| **Mission 9 Assignment Log** | **Name:** |
| **Pre-Mission Preparation** | |
| During this mission you will set up an automatic watering system. What automated activities do you use or see? |  |
| **Mission 9 Checks** | |
| Objective #1  Give at least two facts about a relay.  What is the benefit of using a relay? |  |
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| Objective #2  Explain how to connect the water pump and CodeX to the relay. (You can draw a diagram.) |  |
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| Objective #3  Explain the importance of priming.  What constants are needed for coding the pump? |  |
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| Objective #4  Explain how conductivity affects the soil moisture sensor?  More water in the soil = \_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_  With more water in the soil, the readings will be:  (higher / lower) |  |
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| Objective #5  What code do you add to the program to include the moisture sensor to control the water pump? |  |
| **Post-Mission Reflection** | |
| Discuss a problem you had with the program. How did you overcome the problem? |  |
| Where are some places you may find a relay, or that could use a relay? |  |