**Name: Date: Class:**

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### Post Assessment

1. **Quiz on Learned Concepts**
   1. **Neuroscience Applications**:
      1. Explain how electrical signals from muscles are recorded.
      2. Describe how these signals can be analyzed to learn about the nervous system.
   2. **Data Conversion**:

Outline the steps to convert a .wav file to a .csv file using Python.

* 1. **Data Analysis and AI**:
     1. How can visualizing data help in understanding muscle activity?
     2. What are some basic machine learning techniques that could be applied to this data?

1. **Hands-On Post-Test**
   1. **Python Programming**:
      1. Write a Python script to convert a .wav file to a .csv file.
      2. Create a simple plot of the muscle activity data using Matplotlib.
   2. **Collaborative Analysis**:
      1. In Google Colab, collaboratively analyze a dataset and summarize the findings.
2. **Project-Based Assessment**
   1. **Group Presentation**:
      1. Each group presents their findings, including data visualization and analysis.
      2. Discuss the significance of your results in the context of neuroscience research.
   2. **Reflective Writing**:
      1. Write a short essay on what you learned about data conversion, analysis, and the application of AI in neuroscience.
      2. Reflect on the collaborative process and how it contributed to your understanding.