**Lesson Plan for Combining Two Functions**

**Time: 1 hour**

**Key Learning: Learning programming and CS concepts within the context of media manipulation and creation.**

**Essential Question: How do you create a function that combines elements from the photo function and the sound function to create a new function that shows a photo with a sound?**

**Standards:**  
  
  
**Prior Knowledge:**  
  
Students will know how to start JSE and make a function.

**Vocabulary of Code for Activity:**

|  |  |
| --- | --- |
| **def** | **Define a new function** |
| **block** | **Collection of commands** |
| **Indentation** | **Shows that all statements under def are part of the block.** |
| **Input variable** | **Naming the function** |

**Concept:** Combination Function

**Project Requirements:**

1. **Create a function that allows you to pick a photo**
2. **Test the function for the picture**
3. **Create a function that allows you to pick a sound**
4. **Test the function for the sound**
5. **Create a function that combines elements from the photo function and the sound function to create a new function that shows a photo with a sound.**

**Rubric:**

|  |  |  |
| --- | --- | --- |
| **Project Requirements** | **Points**  **Available** | **Points**  **Earned** |
| Created function for selecting a photo that works | 10 |  |
| Created function for selecting a sound that works | 10 |  |
| Created function that combines the photo and sound that works | 10 |  |
| **Total** | 30 |  |