

LAB EQUIPMENT IDENTIFIER:

Instructions for academic:

Overview

As the academic, your role is to facilitate the game designed to enhance participants' knowledge of key laboratory equipment and their measurement accuracy.

Each game set includes:

1. **Equipment List:** A list of all required lab equipment.
2. **Equipment Cards:** Cards containing visual representations of key laboratory equipment. **Note:** these can be swapped out for physical equipment if available to give students a more hands-on and realistic experience.
 - **Measuring Cylinder**
 - **Beaker**
 - **Volumetric flask**
 - **Balance**
 - **Micropipette**
 - **Pipette tips**
 - **Eppendorf tube**
 - **Pasteur pipette**
 - **Glass pipette**
3. **Equipment name labels:** Labels containing the names of each piece of equipment listed above.
4. **Accuracy Ranking labels:** A sheet categorising equipment into high accuracy, medium accuracy, and low accuracy.
5. **'Instructions card' for the participants.**

Preparation Steps

1. **Print and cut out the equipment cards and accuracy ranking labels:** Use the attached document to print and cut out the names of each piece of equipment.
2. **Laminating (Optional):** If desired, laminate the cut-out equipment cards, accuracy ranking labels and recut around them for durability.
3. **Gather Equipment (Optional):** Obtain all lab equipment listed above prior to the session (enough for each group).

Game Setup

1. Equipment Identification task:

- Provide each bench/group with the Equipment Cards and the names of the equipment.
- **(Optional)** Provide each bench/group with physical equipment.
- They should use the instruction sheet to guide them through the initial stage of the task.

Time Limit: Allocate 10 minutes for participants to discuss and identify each piece of equipment.

2. Accuracy Ranking task:

- Provide each bench with the cut-out names of the equipment and the accuracy cards.
- They should use the instruction sheet to guide them through the task: identifying and ranking the equipment based on their accuracy in measuring liquids: high accuracy, medium accuracy, and low accuracy.

Time Limit: Allocate 10 minutes for participants to rank each item's accuracy.

Facilitating the Game

1. Instructions: After distributing the participant instructions sheet, explain the task clearly.

2. Monitor Progress: Observe the groups as they work, offering guidance if needed.

3. Competition Option: You may run this as a competition, awarding points for correct identifications and rankings, or use it as a tool to gauge their understanding of lab equipment and measurement accuracy.

Conclusion

After the time is up, facilitate a discussion to review their rankings and provide feedback on their understanding of each piece of equipment and its measurement accuracy.