

Name: _____

Date: _____

Course: _____

Virtual Tour For Plant Science Engagement

Objective: Explore the Virtual Tour, clicking on the different tags that can be found inside the different rooms. Then, answer the questions below. Pay attention to the Tag icons as they help differentiate various equipment, roles, information and processes.



Identify the steps for processing a sample



List all the different roles that can be found in a research laboratory.

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_____ are used to make different _____, buffers, and stains that help researchers identify certain pathogens and _____ and help to grow cultures in laboratory settings. [Fill in the blanks]



Match the equipment with their correct descriptions:

___ Pipettes

___ Stereoscope

___ Centrifuge

___ Colony Counter

___ Spectrophotometer

___ Hot plate

___ Lab notebook

___ Thermal Cycler

___ Gloves

___ Desiccator

1. Used to precisely measure and transfer liquids.
2. Amplifies DNA through 3 main steps: Denaturation, Annealing, Extension.
3. Piece of personal protective equipment (PPE).
4. Also known as a Dissecting microscope.
5. Used to hold experiment information, data and results, and protocols on different pathogens and lab techniques.
6. Used to store moisture- sensitive reagents, samples, and different cultures.
7. Machine that helps quantify microbial populations.
8. Keep reagents, antibiotics and solutions at a specific temperature.
9. Measure concentrations of solutions based on light.
10. Separates plant tissue and other solids from liquids.

What new thing did you learn about in the virtual tour?

How do scientists help plants?

What is one piece of equipment you found interesting? Why?

1.

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2. **Stereoscope**

3. **Centrifuge**

4. **Colony Counter**

5. **Spectrophotometer**

6. **Hot plate**

7. **Lab notebook**

8. **Thermal Cyclers**

9. **Gloves**

10. **Desiccator**

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