



Activity 3.1.1 Lab Tech Training

Purpose

In a science lab, you may notice many pieces of equipment and tools. Each piece of equipment has specific uses. Laboratory technicians must know the appropriate uses. When setting up a lab, when do you use a beaker versus a graduated cylinder? What are appropriate instruments to use for measuring volume versus length?

Safety is a primary concern of laboratory technicians and they must have an attitude of safety when working. One component of an attitude of safety is knowing and using the right tool for the job. Another is wearing the appropriate personal protective equipment for the materials you will be using. Training for laboratory technicians is an extensive journey and today you will begin that journey.

Materials

Per class:

Apron	LabQuest2
Alcohol burner	Microscope
Beaker	Petri dish
Beaker tongs	Pipette
Burette clamp	Ring stand
Dissection kit	Safety glasses
Dropper	Sensor
Electronic balance	Support ring
Gloves	Test tube
Graduated cylinder	Thermometer

Per student:

<i>Lab Equipment Note Card</i>	<i>Agriscience Notebook</i>
Pencil	

Procedure

Your teacher will provide you with a note card describing one lab equipment item. You will use the clues to determine which item from the supply table matches your description and then present your item to the class.

Part One – What am I?

Read your note card and determine which item you have. Use the Materials list to help determine the proper name of the item. Once you have found your item, answer the following analysis questions. Be very descriptive in your answers.

What does the item look like?

It looks like a rectangle with a red tube in the middle

What is the item used for? I.E. – Safety, measurement, container, support or movement, etc. used to determine temperature.

Part Two – Sharing

When called upon by your teacher, you will read the clues from your card to the class. The class will use the clues to determine the item you are describing. After the class has correctly guessed your item, share your answers to the two questions from Part One.

As your classmates share their items, record what each item is, looks like, and is used for on *Activity 3.1.1 Student Worksheet*.

Conclusion

1. Why is knowing what items look like and how they are used important for laboratory safety?

So you use them for the right things and don't get hurt.

2. What are three items used for measurement?

Thermometer, beaker, and graduated cylinder.

3. What are three items used for collecting data? Tab quest, sensor, and electronic balance

Name _____

Activity 3.1.1 Student Worksheet

Directions: Record the name of each item of laboratory equipment you and your classmates present. Describe each item in the *Looks Like* column and list the uses for each item in the *Uses* column. Keep this worksheet in your *Agriscience Notebook* as a reference for laboratory activities throughout the year.

Lab Equipment	Looks Like	Uses
dropper	turkey baster	used to transfer liquids with low accuracy
beaker	measuring cup	to hold and measure liquids
petri dish	plastic lid	culture microbial colonies
test tube	lip gloss container/ clear glass tube	used with heat and holding small quantities
graduated cylinder	candle holder	provides accurate measurement of liquids
apron	tarp/bag/dress	used to protect clothes and body
dissection kit	surgeons tools/sewing needle/dental tools	used to dissect animals
tab quest	calculator/phone/game boy	observations and collecting data
sensor	metal pole with black cords/ HDMI cord	data collector
ring stand	lamp without the shade	to suspend and secure items
support ring	magnifying glass/hook	used to support or suspend items
electronic balance	scale	used to determine mass/weight
glove	safety item/hand	to protect your hands
microscope	mini telescope	magnify small objects
beaker tongs	tongs/scissors/dental tool	carry hot glassware
pipette	plastic liquid pen	transfer liquids with a high accuracy
safety glasses	over sized glasses	used to protect your eyes
thermometer	ruler/metal plate	used to determine temperature