

### Regents Biology Lab Practical Study Guide

Lab #	Lab Title	Lab Procedure	Equipment, indicators, technique	Key terms	Main Points
1	Safety Contract	Read instructions and safety procedures. Fill out names of laboratory equipment	KNOW: equipment used for labs	Slide, cover slip, petri dish, beaker, Erlenmeyer's Flask, funnel, graduated cylinder, test tube, dropper, scalpel	Know laboratory equipment and safety procedures
2	The Powers of Observation	Record observations, take quantitative and qualitative observations. Measure, weigh, describe color, shape, patterns, etc. Record observations that can be compared by other scientists so they can verify findings	A set of four specimen rulers, scales and index cards	Sample individual- a specimen Characteristic part (example: leaf)	Record observations in such a way so other scientists can verify the findings
3	Bottle Biology	You are asked to make a small, functional ecosystem within the confines of a bottle	2-liter bottle and caps, scalpel, forceps, organic materials, varied organisms	Ecology	The basics of an ecosystem and maintenance
4	The Parts of the Microscope	Locate the parts of the microscope and describe their functions	Microscopes, lens paper	Magnification, coarse adjustment, stage, etc (parts of the microscope)	Identify the parts of the microscope and their functions
5	Focusing on a prepared slide	Take a microscope and turn it on. First a person turns the coarse adjustment levels as far it will go. Place object on diaphragm and keep	Microscope, prepared slide, lens paper	Parfocal- image is still in focus when transferring from low power to high power	The point of this lab is to learn how to focus an object properly under a microscope.