Final Exam Review (2 of 4)

Name:
Date:
Block:

Cell Theory

Station 1: Lab Equipment

Using the provided equipment on the table, match the equipment with the names below: 1. Beaker _____8. Graduated cylinder _____ 2. Thermometer _____ 9. Eyedropper _____ 3. Erlenmeyer flask _____ 10. Safety glasses _____ 4. Hot Plate _____ 11. Bunsen burner 5. Test Tube 12. Scoopula _____ 6. Test tube rack _____ 13. Stir rod _____ 7. Scale _____14. Funnel Name the piece of equipment that is used... _____1. To protect your eyes. _____2. To measure the temperature of a liquid. ______3. For approximate measurement of a liquid. _____4. For more accurate measurement of a liquid. _____5. To measure the mass of a substance. _____6. To hold a test tube. ______7. To transfer small amounts of liquid from one container to another. _____8. To stir liquids. _____9. To scoop solids. _____10. To transfer liquids into a container with a small opening.

Station 2: Making Observations

Define and give an example for each of the following:

- Qualitative observation:
 - o Example:
- Quantitative observation:
 - o Example:
 - o Instruments we can use:

At the table there are three objects. Make 2 qualitative observations and 2 quantitative observations for each of the objects. Complete the chart.

OBJECT	Qualitative observation	Quantitative observation
A	1.	1.
	2.	2.
В	1.	1.
	2.	2.
С	1.	1.
	2.	2.

Station 3: Characteristics of living things and Biological Drawings

List the seven characteristics of living things:

•

•

•

•

•

•

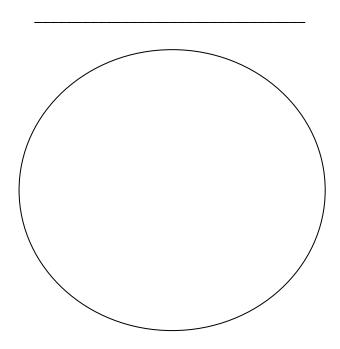
•

Select <u>THREE</u> different living objects in the picture below and choose one (or more) living characteristics that you observe.



Object:	Exhibited Characteristic(s)
1.	
2.	
3.	

Draw a detailed biological diagram of your sample and include a title, labels and magnification used.



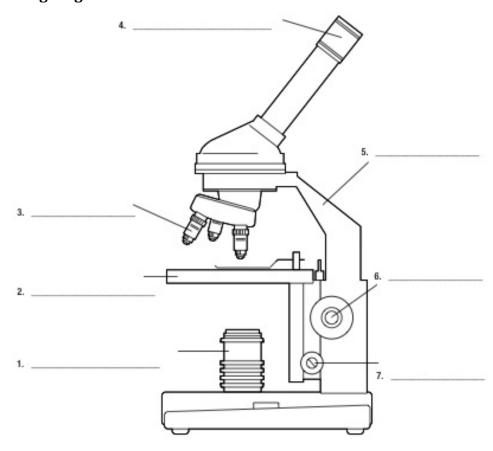
Total magnification: ____x

Match the function with the microscope part.

Function	Microscope part
1. holds the slide in place	(a) objective lens
2. lens closest to the eye	(b) eyepiece
3. supplies the light needed to view the object	(c) revolving nosepiece
4. allows you to switch magnifications	(d) coarse focus knob
5. magnifies the object	(e) stage clips
6. supports the microscope slides	(f) fine focus knob
7. used for focussing at low power	(g) light source
8. used for focussing at high power	(h) stage

Station 4: Summary Questions

Label the following diagram:



1. If you are using a **medium** power objective lens, what is the total magnification of the specimen?

Z. For	a correct microsco	ope diagram, identii	y whether the following	statements are true or false
--------	--------------------	----------------------	-------------------------	--

_____The diagram can be drawn in pen
_____The diagram must include detail

____Lines do not have to be drawn with a ruler

____The labeling lines must be horizontal

_____Writing can be in the diagram circle

____A title must be included

_____The magnification is irrelevant to the diagram

3. Complete the table with the function of the organelle:

Organelle	Function
Cell membrane	
Lysosome	
Nucleus	
Mitochondria	
Cytoplasm	
Golgi body	

4. Label the following animal cell diagram:

