	LA	B# Human Blood
Lab Instructor	Name	
Lab Instructor Date	Microscope #	Period
Objective: To observe the cell components of human bloo	d vering all auestions ***	
Background Sackground	eing un questions.	
Blood is a liquid tissue that consists of a liquid poblood cells and platelets). The blood serves as a medium of wastes. It serves a protective function against disease and	of transport for nutrients, respiratory	gases, and metabolic
Pre-Lab Read the entire lab description and appropriate text pages 1. Describe the proper technique for carrying a microscope		
2. Summarize the steps used to observe a prepared slide un	nder high power with a microscope.	
3. Explain how the digestive system is connected to the cir	culatory system.	
4. What are the functions of the circulatory system?		
5. Design an experiment to test a person's blood sugar leve	el.	
LAB		
Read the appropriate section in the microviewer book A. <i>Introduction</i>	let #95 to guide you through this	s activity.

How many miles of blood vessels service our cells?

Why must the blood reach a vicinity nearby each working cell?

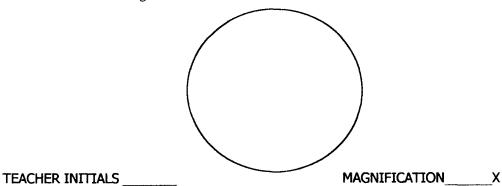
Name	
	Period

1. Human blood smear

- a. What are the components of whole blood?
- b. Why is plasma said to be a complex solution?

2. Red corpuscles

- a. What is the function of red blood cells?
- b. How are old or defective red blood cells removed?
- c. How do the shape and chemical components of red blood cells help them do their job?
- d. Using a prepared slide, draw and label a <u>red blood cell</u> you observed under high power. Show the focused image to the teacher.



3. White corpuscles (leukocytes)

- a. How does the number of white blood cells compare to red blood cells?
- b. Why are lymphocytes considered to be detectives involved in chemical warfare?

4. Phagocytes

In what way are leukocytes similar in activity and structure to an ameba?

5. Blood type B

Describe what happens if a person with type B blood receives type A blood in a transfusion.

H	m	'n	RI	ററർ
				emme

		Human blood
Lab Instructor	Name	
Date	Microscope #	Period
6. Fibrin a. When a wound occurs that injures the blood vessel wall, w	what signals the blood that damage	has occurred?
 b. Draw a picture of what you think the clot would look like once complete. Label the various components of the clot. → 		
7. Sickle cells Using a prepared slide, draw and label a sickle cell you ob Show the focused image to the teacher.	served under high power.	

What are the effects of having sickle cells?

TEACHER INITIALS _____

8. Infected blood

Describe three ways in which we avoid getting infected blood. (Use your prior knowledge, not the microviewer booklet.)

MAGNIFICATION____X