



SCIENCE LAB SHEET

Observing Blood Cells Under a Microscope

Using Prepared Slides

Name: _____

Date: _____

Course/Grade: _____

LAB GOAL

To observe and identify different types of blood cells using a prepared microscope slide.

BACKGROUND

Blood is a connective tissue that contains different types of cells, each with an important job.

The main types of blood cells are:

- **Red Blood Cells (Erythrocytes):** Carry oxygen throughout the body.
- **White Blood Cells (Leukocytes):** Help the body fight infections.
- **Platelets (Thrombocytes):** Help blood clot to stop bleeding.

A prepared slide contains a thin smear of human blood that has been stained so the cells are easier to see under a microscope.

MATERIALS

- ☐ Microscope
- ☐ Prepared human blood smear slide (stained)
- ☐ Lens cleaning paper
- ☐ Notebook or lab journal
- ☐ Pencil
- ☐ Optional: Colored pencils



SAFETY FIRST

- Handle microscope slides carefully.
- Do not eat or drink during the lab.
- Wash your hands after the lab.

PROCEDURE

1. Place the prepared blood slide on the microscope stage.
2. Start with the low-power objective (4x).
3. Adjust the stage and focus to find a clear view of the cells.
4. Once you have a clear image, observe the cells.
5. Switch to the medium power (10x) and refocus. Observe the cells again.
6. If available, switch to the high power (40x). Use the fine adjustment only. Observe the cells in more detail.
7. Draw and label the different types of blood cells you see in the space provided.
8. Clean up your area and return all materials.

TYPES OF BLOOD CELLS



Red Blood Cell (Erythrocyte)

Biconcave disc shape; carries oxygen throughout the body.



White Blood Cell (Leukocyte)

Larger cell with a nucleus; helps the body fight infections and disease.



Platelet (Thrombocyte)

Very small cell fragments; help blood clot to stop bleeding.

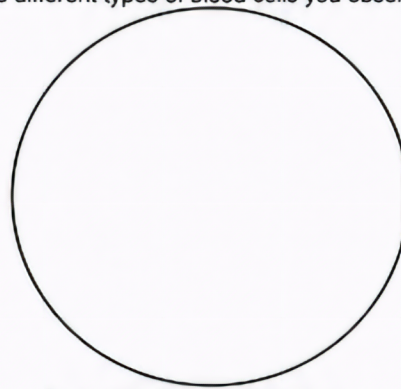
OBSERVATIONS

Fill in the table with your observations.

Cell Type	Shape	Color	Relative Size (small / med / large)	What I Notice
Red Blood Cell (Erythrocyte)				
White Blood Cell (Leukocyte)				
Platelet (Thrombocyte)				

DRAW AND LABEL

Draw the different types of blood cells you observed.



Be sure to label each cell type.

CONCLUSION

1. What did you learn from this experiment? _____
2. How do the different types of blood cells work together to keep the body healthy? _____