Please read Chapter 19 and answer the study questions below. Then do the blood typing exercise at the Nobel Website and prepare for discussion on Tuesday in Lab
http://nobelprize.org/educational_games/medicine/landsteiner/

1. What are the components of blood and their functions?
2. What is the composition and functions of plasma?
3. What is the structure, function of RBC and explain erythropoiesis (Figure 19-5).
4. What is the structure/function of hemoglobin?
5. How are blood types determined? Discuss the reasons for transfusion reactions and mismatching of blood.
6. What are the differences between the WBC’s in terms of structure and function and how is their production regulated?
7. Be able to identify erythrocytes, basophils, eosinophils, monocytes, lymphocytes, and neutrophils.
8. Understand the concepts of differential white blood cells counts and hematocrit (Lab 29B)
10. Explain hemostasis (platelet phase, coagulation phase, details of clot formation).
11. Disease/disruptors of homeostasis: sickle cell anemia, jaundice, hemophilia, erythropoietin (kidney disease, blood doping), anemia (pernicious, aplastic, iron deficiency), leukemia, mononucleosis, lymphoma

Websites

BLOOD INTRODUCTION

BLOOD DISEASES

HEMATOCRIT

TYPING OF BLOOD
Are You Positive or Negative? (Rh) http://sln.fi.edu/biosci/blood/rh.html
(To go bottom of page to check out animation of blood typing rx) http://www.psbc.org/hematology/03_blood_typing.htm