A chronic myelogenous leukemia patient’s blood smear shows an increased number of neutrophils, a type of white blood cell.

Name: ______________________________________

Class/Period: ________________________________

Materials:
• Compound light microscope
• Prepared slides of blood smears from patients with blood disorders

Instructions:
1. Work in teams of two to four students.
2. Obtain the blood smear, history, and physical symptoms of your assigned patient.
3. Observe the blood smear with the 10X and 40X objective lenses, and note/sketch observations in the space below.
4. Using www.bloodthevitalconnection.org/blood-basics/other-resources.aspx as a reference, diagnose the disease of the patient your group was assigned. Be prepared to justify your determination based on your observations and notes from reference materials.

Summary/Description of Symptoms: ________________________________

Observations/Sketches of Blood Smear: ________________________________

Analysis Questions:
1. Contrast the blood smear you observed today with a normal blood smear. What differences did you observe?
2. Which symptoms gave a clue to the patient’s possible diagnosis? How did you narrow down the possibilities?
3. What treatments would you recommend for your patient?