Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Trace Evidence: Fiber Unit Review**

1. What are the two major categories of fibers?
2. What are natural fibers derived from?
3. What is the most common natural animal fiber?
4. What is the most common natural plant fiber?
5. What is Hemp? What is it typically used for?
6. What is the most common synthetic fiber? What are its characteristics?
7. Describe the following synthetic fibers:
   1. Nylon
   2. Acrylics
   3. Acetates
8. What is the main difference between the microscopic appearances of natural and synthetic fibers?
9. Compare heat-resistant aramid fiber and flame-resistant aramid fiber.
10. Name the four common weave patterns used in the textile industry.
11. What are some microscopic characteristics examined and used to compare fibers?
12. Define the following:
    1. Polarized light microscopy
    2. Birefringence
    3. FTIR
    4. UV-Visible Microspectrophotometry
13. Name the three people who have been convicted of murder(s) based on fiber evidence.