**Fibers Worksheet** Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ # \_\_\_\_\_\_\_\_\_

*Use your book!*

1. What is a fiber?
2. What two groups are fibers categorized into?
3. What is the difference between yarn and fabric?
4. Explain why fibers are considered class evidence
5. Distinguish between a warp and a weft.
6. Fibers are polymers. State 2 types of natural fibers and the monomers of each.
7. Explain how synthetic fibers are extruded and why they have different characteristics.
8. A) Describe some of the chemical properties of keratin. B) Why does it have a bad odor when wool is burned?
9. A) What kind of macromolecule is silk? B) How is silk produced?
10. What is linen derived from?
11. What was the first synthetic fiber produced?
12. What is spandex made of?
13. Which type of fiber has the highest density? The least?
14. How is refractive index used to identify fibers?
15. Why are fibers considered trace evidence?
16. State 3 ways fibers could be transferred to a victim’s body.
17. Although sheep's wool is most common, woolen fibers from other animals may also be found. What other animals provide woolen fibers?
18. More than half of all fibers used in the production of textile materials are man-made. Some man-made fibers originate from what natural materials?
19. What are the most commonly encountered man-made fibers?
20. What were the 3 pieces of fiber evidence in the OJ Simpson trial?