1. Fibers are used in forensic science to create a link between crime and a ___suspect______.

2. Fiber evidence is collected using tape________, forceps, a vacuum or sticky line roller.

3. The value of fiber evidence in a crime investigation depends on it’s potential uniqueness____.

4. 3 sources of animal fibers are hair, fur and ___webbing__________________.

5. 2 types of fiber classification:  a:__Natural______________________________  
   b:__Synthetic______________________________

6. Natural fibers come from animals, plants and ___minerals_________ mined from the ground.

7. __Cotton_________ is found in the seed pod of a plant.

8. __Coir_________ fibers is obtained from coconuts.

9. Stem fibers are made from flax, jute and __hemp_________ and are all produced from the thick region of the plant stems.

10. Mineral fibers, made from ___asbestos________, are very durable but has health risks and is Not commonly used.

11. Synthetic fibers are stronger than the strongest ___natural________ fibers.

12. Manufactured fibers are not damaged by ___microorganisms__________________.

13. Manufactured fibers can deteriorate in ___bright sunlight____ and melt at a lower temperature than natural fibers.

14. Half of the fabrics produced today are ___synthetic____ fibers.

15. 4 synthetic fibers:  a._Rayon____   
    b. Acetate____ 
    c._Nylon____ 
    d. Polyesters

16. Fibers too short___ in their raw state to be used to make textiles may be spun together to make yarns.

17. Very thin yarns are often called ___threads__________.
18. Three ways that patterns differ include: a. **Weave pattern**
   b. **Thread count**
   c. **Two ply**

19. Weaving consists of arranging lengthwise threads (the warp) side by side and close together.

20. Crosswise threads (the weft) are woven back and forth in one of several different patterns.

21. Fibers are a form of (class, individual) evidence.

22. **Cotton** smells like burning leaves.

23. Sheep wool smells like (sulfur) when burned.

24. **Asbestos (fiber glass)** is composed of a fiber form of glass.

25. Asbestos is used for **insulation**.

26. The word **polymer** means many units.

27. The defense attorneys for Wayne Williams argued that the fibers found should not be admissible because it was new science. The jury allowed the evidence based on **Frye v. US**?

28. Synthetic fibers are made from petroleum, coal, and natural gas.

29. What is the most widely used man-made fiber? **polyester**

30. **Nylon** is the most durable of man-made fibers; extremely lightweight.

31. **Cotton** is a seed fiber; strong, tough, flexible, moisture-absorbent, not shape-retentive.

32. **Silk** is an insect fiber that is spun by an insect to make its cocoon; the fiber reflects light and has insulating properties.

33. **Wool** is an animal fiber coming most often from sheep, but may be goat (mohair), rabbit (angora), camel, alpaca, llama, or vicuña.