CLOTHING FIBERS

Directions: Fill in the following information as you view the video.

1. A ________ is the basic building block of cloth.

2. What is cloth? ____________________________________________

3. What are yarns made from? _______________________________________

4. Each of us uses about ________ pounds of textile fibers a year.

5. Fibers can be classified as ___________ or ________________.

6. Natural fibers have their origin from ________________ or ________________

7. Synthetic fibers are called ________________ or ________________ fibers.

8. List four (4) natural fibers and three (3) synthetic fibers.
   Natural
   __________________________________________
   __________________________________________
   __________________________________________
   __________________________________________
   Synthetic
   __________________________________________
   __________________________________________
   __________________________________________
   __________________________________________

9. Synthetics do not __________ moisture, but natural fibers do.

10. Why are most T-shirts made from 100 percent cotton? ________________

11. Since synthetic fibers do not absorb water, they often develop ____________
    electricity or cling.

12. T F You cannot tell the fiber in a fabric just by looking at it.

13. T F Fiber content labels are not required on all clothing items.

14. T F A blended fabric always uses three (3) or more fibers.

15. T F Often a blend is one (1) natural and one (1) synthetic fiber used together.

16. T F Polyester/cotton is the most common blend of fibers.

17. T F By blending two (2) fibers you can have the advantages of both fibers.

18. T F To get the benefits of cotton or wool in blended fabrics, the cotton content
    must be at least 50 percent and the wool content must be at least 80
    percent.

19. T F Fiber labels are only found in clothing items.

NATURAL FIBERS

20. ___________ was used by Native Americans in about 700 A.D. and the
    Egyptians 4,000 years ago.

21. After the cotton flower drops from the plant, it is replaced with a pod called a
    ___________ ________.

22. Cotton is no longer harvested by hand but by machines called ____________
    and ____________.
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23. The _______ _______ separates the fibers from the seeds.
24. The higher grades of cotton fibers are about ______ inch(es) to ______ inch(es) long. The longer fibers make a smoother fabric.
25. The highest grade of cotton is called ___________ ____________________.
26. Cotton fabrics ___________ easily and shrink about _____ percent unless pretreated to resist shrinking.
27. _________ is the most used fabric in the world, and the most used ________ fabric in the United States.

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28. ___________ is possibly the oldest fiber known to humans.
29. Wool is a ___________ substance, just like human hair.
30. The majority of wool comes from ____________.
31. The surface of the wool fiber ___________ water, and the inner core ________ water.
32. Wool can absorb almost ___________ its own weight in water and still feel dry to the touch.
33. List three (3) characteristics that wool has because of its absorbency:
   1. ______________________________________________
   2. ______________________________________________
   3. ______________________________________________
34. Wool is woven into fabric by interlacing the yarns on a loom.
   The lengthwise yarns are called the _____________.
   The crosswise yarns are called the ___________ or _____________.

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35. Linen is made from the fibers of the _______ plant.
36. Flax is grown and harvested mostly by hand in Western Europe, mainly in three (3) countries. What are they?
   ______________________________________________
37. Linen has longer fibers than cotton. They are usually ______ inch(es) to ______ inch(es) long. This makes linen stronger and smoother than cotton.
38. List six (6) ways linen is used:
   1. ______________________________________________
   2. ______________________________________________
   3. ______________________________________________
   4. ______________________________________________
   5. ______________________________________________
   6. ______________________________________________
39. Linen is usually _______ expensive than cotton.
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40. _________ has always been associated with beauty and luxury.
41. The process of making silk was invented in _________ about ________ years ago.
42. Silkworms used for making the silk fibers feed on ______________ leaves and eat ________________.
43. Each cocoon contains from _________ to _________ yards of fibers.
44. A silk thread is as strong as a _________ of equal thickness.
45. _________ is made from the _________ plant.
46. Ramie is ________________, ________________, and ________________.
47. Ramie fibers are usually used:
   _____ Alone   _____ Blended with other fibers

SYNTHETIC (MANUFACTURED) FIBERS

48. ________________ is the most commonly used synthetic fiber.
49. Polyester's best quality is that it resists ________________.
50. Most synthetic fibers begin as a ________________ product.
51. Dupont introduced its DACRON brand of polyester in ________.
52. _________ has some of the look and feel of silk.
53. Give six (6) examples of products made of nylon.
   1. ________________  4. ________________
   2. ________________  5. ________________
   3. ________________  6. ________________
54. Nylon has replaced ________________ as the fiber most used in carpets.
55. Nylon was introduced to consumers in _________ and gained acceptance first as nylon ________________ replaced those made of silk.
56. Acrylic is a synthetic fiber that is made from __________, __________, __________, __________, and ____________.
57. Acrylic imitates ________________ and has many of the same characteristics. It is __________ and __________ but does not have its ________________ ability.
58. A ____________ / ____________ blend is often used in sweaters.
MAN-MADE (MANUFACTURED) FIBERS

59. ___________ and ___________ start life as trees. These fibers are made from chemically altered _______ _______.

60. Rayon was the ___________ man-made fiber used for clothing and dates back to the ________ war.

61. T F Rayon wrinkles terribly.

62. Until 1924, rayon was known as artificial ___________.

63. Rayon is commonly used for ___________ wear, and acetate is commonly used for ________ wear. Some other uses are:
   Rayon: ____________________________________________________________
   Acetate: __________________________________________________________

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64. T F There is no one best fabric; it depends upon what it is to be used for.

Below are fabric products matched with a fiber. Most are rather poor matches. Explain what qualities of the fiber make it a poor choice for the product.

Wool/swimsuits Ex. = Wool is weak when wet: becomes heavy when it absorbs a lot of water: dries very slowly: may be rough and itchy to your skin: doesn't smell very pleasant when wet.

Nylon/T-shirts __________________________________________________________

Cotton/business suits __________________________________________________

Polyester/underwear ____________________________________________________

Silk/stockings _________________________________________________________

Rayon/parachutes _______________________________________________________

Acrylic/towels _________________________________________________________

Silk/swimsuits _________________________________________________________

Wool/track suit _________________________________________________________

Rayon/backpacks _______________________________________________________

Polyester/cleaning cloth _________________________________________________

Silk/window curtains ____________________________________________________

Nylon/sheets __________________________________________________________

Cotton/swimsuits _______________________________________________________

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