



Name _____ Period _____ Date _____

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.



- 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 _____.



- 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. _____ 4. _____
 - 2. _____ 5. _____
 - 3. _____ 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.



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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: _____



- 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 _____