Across
5. DNA present in small structures outside the nucleus of a cell
6. molecule with a high molecular mass
11. exceptionally strong, supple, resists damage from oil and chemicals
14. fibers derived from either natural or synthetic polymers
16. strong, resistant to stretching and shrinking, crisp when wet or dry
20. white, dyeable, flame resistant, low thermal conductivity
22. substance composed of a large number of atoms that are usually arranged in repeating units
23. Translucent piece of tissue surrounding the hair shaft near the root that contains the richest source of DNA associated with the hair
24. fibers derive from animal or plant sources
25. basic unit of structure from which a polymer is constructed

Down
1. Scale structure covering exterior of the hair
2. extremely flame resistant, will not burn or melt
3. thermal bonding, self-bulking, unique cross sections
4. Main body of the hair shaft
7. Initial growth phase during which the hair follicle actively produces hair
8. two or more atoms held together by chemical bonds
9. soft, warm, wool-like, quick drying, retains shape
10. strong, soft, absorbent, good dyeability
12. Transition stage between the anagen and telogen phases of hair growth
13. highly absorbent, versatile, good drapability
15. can be stretched 500% without breaking
17. The final growth stage in which hair naturally falls out of the skin
18. Cell column running through the center of the hair
19. DNA that is present in the nucleus of a cell and that is inherited from both parents
21. soft, abrasion and flame resistant, resists acids