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| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

Hairy Fibers

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 3  F | I | L | A | M | E | N | T |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  | 4  P |  |  |  |  |  |  |  | N |  | L |  |  | 5  C |  | 6  K |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | O |  |  |  | 7  C | O | R | T | I | C | A | L | F | U | S | I |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | L |  |  |  |  |  |  |  | N |  | R |  |  | R |  | N |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  | M |  | 8  E |  | 9  M | O | R | P | H | O | L | O | G | Y |  | Y |  |  |  |  |  |
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|  |  |  |  |  |  |  | 10  D | E | R | M | I | S |  | 11  W | E | F | T |  | 12  T |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  | D |  | 13  F |  |  |  |  |  | E |  |  |  |  | 14  Q |  |  |  |  |  |
|  |  |  |  |  | 15  C | U | T | I | C | L | E |  | A |  | 16  M | E | D | U | L | L | A |  |  | U |  |  |  |  |  |
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|  |  |  |  |  |  |  | 17  P | O | L | Y | M | E | R |  |  | 18  A | N | A | G | E | N |  |  | S |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  | 19  A | S | S | O | C | I | A | T | I | O | N |  |  | 20  C |  | I |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  | 21  M | I | 22  C | R | O | M | E | T | E | R |  | N |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A |  | 24  D |  |  |  |  | X |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  | 25  K | E | R | A | T | I | N |  |  |  |  |  |  |  |  |  |
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| **Across**  **3.** A slender threadlike object or fiber, especially one found in animal or plant structures.  **7.** Air sacs contained within the cortex  **9.** The study of form and structure  **10.** The sub-layer of skin  **11.** (in weaving) the crosswise threads on a loom over and under which other threads (the warp) are passed to make cloth.  **15.** Outside covering of the hair shaft  **16.** Spongy interior core of hair  **17.** Complex cross linked proteins  **18.** Period in which the hair grows  **19.** A link between an unknown sample and known evidence.  **21.** One-millionth of a meter or one thousandth of a millimeter(mm).  **23.** A fabric made up of two or more different parts  **25.** The tough protein polymer that makes up the protein cortex | **Down**  **1.** Term used in forensics to describe a sample of known origin  **2.** A natural pigment found in the skin  **4.** Molecule consisting of many repeating identical units  **5.** Hair style with an oval cross section  **6.** Hair style that has a crescent moon shape  **8.** Outermost layer of skin  **12.** Period in which the hair dies  **13.** Cloth, typically produced by weaving or knitting textile fibers.  **14.** Term used in forensics to describe a sample of unknown origin  **20.** Middle layer that provides strength to the hair  **22.** Period of intermediate period of hair growth; lasting about 3 weeks  **24.** This is found in every hair root |