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

Chapter 20 Chemical Texture

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 |  |  |  |  |  |  |  |
|  | 3 |  |  |  |  |  |  |  |  |  |  |  |  | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  | 5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  | 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 7 |
| 8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 9 |  |  |
|  |  |  |  |  |  |  |  |  |  | 10 |  |  |  |  |  |  |  |  |  | 11 |  |  |  |  |  |  |  |  |  |
|  |  |  |  | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | 13 |  |  |  |  |  |  |  |  |  |  |  |  | 14 |  |  |  |  |  |  |  |  |  |
|  |  |  | 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 16 |  |  |  |  |  |  | 17 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | 18 |  |  |  |  |  | 19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | 20 |  |  |  |  |  |  |  |  |  | 21 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | 22 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 23 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | 24 |  |  |  | 25 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 26 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | 27 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 28 |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | 29 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 31 |  |  |  |  |  |  |  |  |  |  |  |  | 32 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 33 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |
| --- | --- |
| **Across**  **1.** panels of hair divided into smaller subsections called \_\_\_\_  **3.** it is important to know that ammonia-free doesn’t mean\_\_\_  **4.** the shape and type of curl are determined by the shape and type of \_\_\_\_  **6.** common neutralizer  **10.** layer of the hair located directly beneath the cuticle layer  **11.** base section off set from each other row by row  **15.** chemical side bonds are formed when two sulfur-type chains are joined together  **20.** used in salons and have a ph of 7.8 and 8.2  **22.** coiled polypeptide chains linked together end to end  **24.** waves are permanent solutions based on sulfates, considered very week Low-ph when the hair has too many broken disulfide bonds and will not hold a firm curl  **27.** two methods of wrapping  **29.** soft foam perm rods  **30.** refers to the position of the rod in relation to the base  **31.** ends to scalp  **32.** measurement of thickness or thinness of a liquid  **33.** use of thio relaxer and flat ironing | **Down**  **2.** waves are perms using an ingredient that does not evaporate as readily as ammonia, so there is very little odor  **5.** what waving solution use an ingredient other than ATG, such as custeamine or mercaptamine  **7.** give the ability to change the hairs natural wave and curl pattern  **8.** minimizes stress and tension on the hair  **9.** the symbol ph represents the quantity of \_\_\_\_\_ions in a solution  **12.** modern acid waves are actually \_\_\_waves and have a ph of 7 or neutral  **13.** chemical texturized temporary rises the ph of the hair to a \_\_\_state  **14.** all perm begin by sectioning into \_\_\_\_  **16.** caution should be used with \_\_\_placement to avoid stress and tension  **17.** coarse, resistant hair with a compact cuticle will require a \_\_\_solution  **18.** measures the acidity and alkalinity of a substance and is measured from 0-14  **19.** the reduction reaction is due to the addition of\_\_\_\_  **21.** without a thorough understanding of \_\_\_\_\_,cosmetologist could damage hair or cause hair loss and harm to their clients and themselves  **23.** two step process in which the hair first undergo a physical change caused by wrapping the hair on perm rods, then a chemical change cause by waving solution  **25.** abbreviation used for potential hydrogen  **26.** uses one end paper folded in half  **28.** exothermic waves create a chemical reaction that heats up and speed up the \_\_\_\_ |