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

Chemistry of Soap

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| **Across**  **5.** more effective than soap and dissolves in cold water more easily than soap  **6.** it taste bitter and has a slippery feel  **8.** a substance used with water for washing and cleaning, made of a compound of natural oils or fats with sodium hydroxide or another strong alkali, and typically having perfume and coloring added  **9.** Doesn't dissolve and difficult to wash away  **10.** could be made from common table salt and water  **11.** Each molecule of soap is shaped like this  **13.** molten state formed during manufacture, especially after fitting and settling out of nigre and lye  **14.** add perfume, cleansing ingredients, such as extra fats or oatmeal or essential oils, to your soaps that is fed through rollers that crush it.  **15.** molecules are usually joined together in groups of three, forming a molecule called a triglyceride | **Down**  **1.** A sweet, syrupy liquid obtained from animal fats and oils or by the fermentation of glucose  **2.** Esters can be cleaved back into a carboxylic acid and an alcohol by reaction with water and a base this reaction is called  **3.** test with this paper to see if acid or base  **4.** a process in which one or more substances, the reactants, are converted to one or more different substances, the products  **7.** it tastes sour like a pickle  **12.** when soap lathers it makes |