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|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------|
| Ernest Solvay introduced the ammonia process to make soda ash | Greek physician, Galen, recommended soap for medicinal and cleansing purposes                              | Italy, Spain, and France became manufacturing centers of soap due to the availability of raw materials | the 1 <sup>st</sup> synthetic soap was made in Germany due to soap ingredient shortage | Egyptians made soap-like materials from oils and salt |
| Michel Chevreul discovered the Chemistry of fats and soaps    | Roman offer animal in Mt. Sapo where tallow and wood ashes were washed with the rain along the Tiber River | earliest known evidence of possible use of soap by the early Babylonians                               | Soap-making become an established craft in Europe                                      | Nicolas Leblanc patented making soda ash from salt    |

