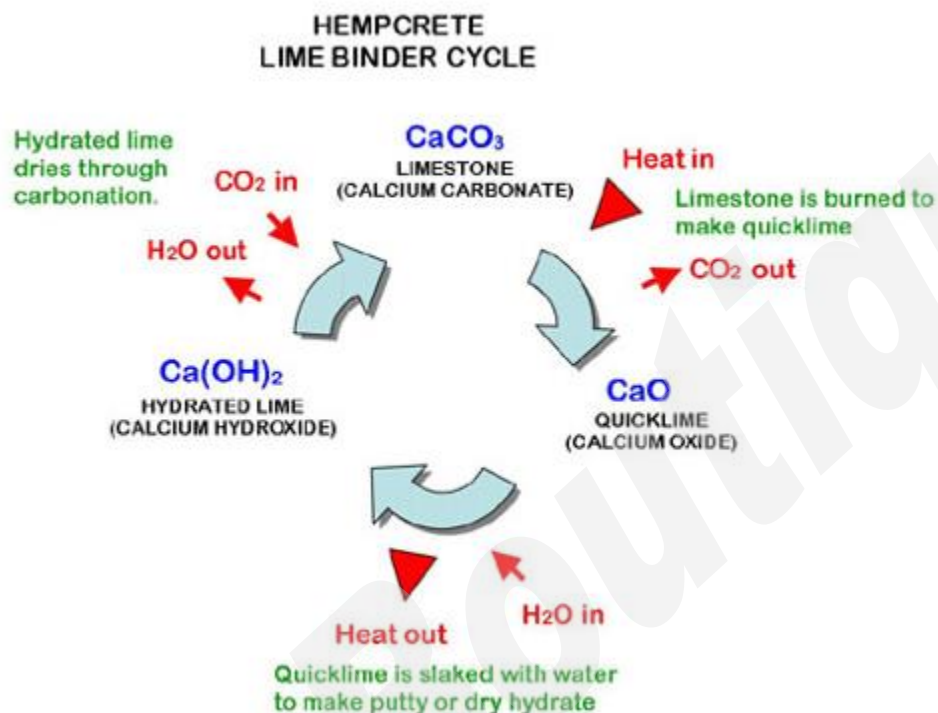


## Carbonate

(IGCSE Chemistry Syllabus 2016-2018)



- Quicklime is manufactured by thermal decomposition of limestone  
 $\text{CaCO}_3$  (limestone)  $\rightarrow$   $\text{CaO}$  (quicklime) +  $\text{CO}_2$
- Uses of quicklime ( $\text{CaO}$ ):
  - i. Making steel from iron
  - ii. To neutralize acidity in soil
  - iii. Drying agent in industry
- Slake lime is manufactured by adding water to quicklime  
 $\text{CaO} + \text{H}_2\text{O} \rightarrow \text{Ca(OH)}_2$
- Uses of slaked lime:
  - i. Neutralizes acidity in soil, and in lakes affected by acid rain
  - ii. Neutralizing acidic industrial waste products, e.g. desulphurization