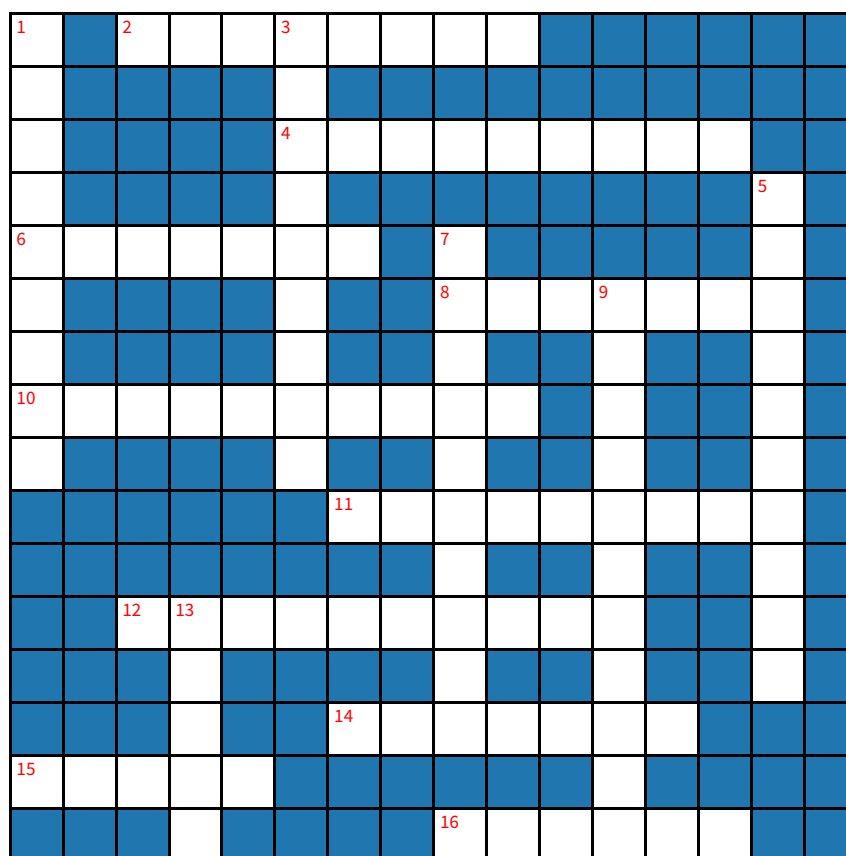


Rates of reaction



Across

- 2 These substances are made in reactions (8)
- 4 These substances increase the rate of a reaction but do not get used up (9)
- 6 These proteins are biological catalysts (7)
- 8 Particles must do this so they can react together (7)
- 10 These reactions transfer energy to the surroundings, usually by heating (10)
- 11 These substances are used up in reactions (9)
- 12 This type of reaction can go in both directions, with a forward reaction and a reverse reaction (10)
- 14 In this type of equilibrium, the forward and reverse reactions continue to happen (7)
- 15 Powders have large surface _____ compared to their volumes (5)
- 16 This is released when chemical bonds are made (6)

Down

- 1 In an endothermic reaction, you get more product if the temperature is ... (9)
- 3 In an exothermic reaction, you get more product if the temperature is ... (9)
- 5 This happens to a reaction if the temperature is increased (4,6)
- 7 The minimum amount of energy needed for particles to react (10)
- 9 Scientist whose principle lets you predict the effect on the position of equilibrium when you change the reaction conditions (2,9)
- 13 The rates of the forward and reverse reactions at equilibrium are this (5)