



# HYDROGEN IONS AND ACIDITY

## Section Summary

### Objectives

- Define hydrogen ion and acid.
- Explain how acids ionize in aqueous solutions.
- Describe strong and weak acids.

### Key Vocabulary

hydrogen ion	strong acid	weak acid
acid	concentrated	concentrated
ionization	aqueous solution	aqueous solution
strong acid	water	water

### Key Equations

- $\text{H}_2\text{O} \rightleftharpoons \text{H}^+ + \text{OH}^-$
- $\text{H}_2\text{O} \rightleftharpoons \text{H}^+ + \text{OH}^-$

$$\text{H}_2\text{O} \rightleftharpoons \text{H}^+ + \text{OH}^-$$

### Practice Problems

1. Which of the following is a strong acid?  
A.  $\text{H}_2\text{O}$  B.  $\text{H}_2\text{O}$  C.  $\text{H}_2\text{O}$  D.  $\text{H}_2\text{O}$

### Answers

1. A	2. B	3. C	4. D
5. A	6. B	7. C	8. D
9. A	10. B	11. C	12. D
13. A	14. B	15. C	16. D
17. A	18. B	19. C	20. D
21. A	22. B	23. C	24. D
25. A	26. B	27. C	28. D
29. A	30. B	31. C	32. D
33. A	34. B	35. C	36. D
37. A	38. B	39. C	40. D
41. A	42. B	43. C	44. D
45. A	46. B	47. C	48. D
49. A	50. B	51. C	52. D
53. A	54. B	55. C	56. D
57. A	58. B	59. C	60. D
61. A	62. B	63. C	64. D
65. A	66. B	67. C	68. D
69. A	70. B	71. C	72. D
73. A	74. B	75. C	76. D
77. A	78. B	79. C	80. D
81. A	82. B	83. C	84. D
85. A	86. B	87. C	88. D
89. A	90. B	91. C	92. D
93. A	94. B	95. C	96. D
97. A	98. B	99. C	100. D

## 19 2 Hydrogen Ions And Acidity Answer Key

**N Noddings**

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