

## 14.3

## HYDROGEN IONS AND ACIDITY

## Section Review

## Objectives

1. Calculate concentrations based on the pH of acids and bases and vice versa.
2. Calculate pH and concentrations based on the  $K_a$  and  $K_b$  of acids and bases and vice versa.
3. Calculate the pH of weak acids and bases.

## Vocabulary

- |                   |                             |                  |
|-------------------|-----------------------------|------------------|
| 1. autoionization | 2. conjugate acid-base pair | 3. acid solution |
| 4. autoionization | 5. acid rain                | 6. acid rain     |
|                   | 7. acid solution            | 8. pH            |

## Key Equation

- |                                     |                                     |
|-------------------------------------|-------------------------------------|
| 1. $\text{pH} = -\log [\text{H}^+]$ | 2. $\text{pH} = -\log [\text{H}^+]$ |
| 3. $\text{pH} = -\log [\text{H}^+]$ | 4. $\text{pH} = -\log [\text{H}^+]$ |

## Part A Completion

Write the equation and/or the chemical formula(s) of the species involved in the reaction described in each problem. Be sure to include the correct state symbols.

1. Write the equation for the autoionization of water.
2. Write the equation for the autoionization of water.
3. Write the equation for the autoionization of water.
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18. Write the equation for the autoionization of water.
19. Write the equation for the autoionization of water.
20. Write the equation for the autoionization of water.

1.  $\text{H}_2\text{O} \rightleftharpoons \text{H}^+ + \text{OH}^-$
2.  $\text{H}_2\text{O} \rightleftharpoons \text{H}^+ + \text{OH}^-$
3.  $\text{H}_2\text{O} \rightleftharpoons \text{H}^+ + \text{OH}^-$
4.  $\text{H}_2\text{O} \rightleftharpoons \text{H}^+ + \text{OH}^-$
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18.  $\text{H}_2\text{O} \rightleftharpoons \text{H}^+ + \text{OH}^-$
19.  $\text{H}_2\text{O} \rightleftharpoons \text{H}^+ + \text{OH}^-$
20.  $\text{H}_2\text{O} \rightleftharpoons \text{H}^+ + \text{OH}^-$

# 19 2 Hydrogen Ions And Acidity Work Sheet Answers

**Rod O'Connor**



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web jun 19 2023 the revised third edition of the prokaryotes acclaimed as a classic reference in the field offers new and updated articles by experts from around the world on taxa of investigating prokaryotic answer key biologists interested in how bacteria and other prokaryotes function

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web key points the two prokaryote domains bacteria and archaea split from each other early in the evolution of life bacteria are very diverse ranging from disease causing pathogens to beneficial photosynthesizers and symbionts archaea are also diverse but none are pathogenic and many live in extreme environments

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web jan 21 2020 prokaryotes are unicellular microorganisms whose cells have no nucleus prokaryotes can be found everywhere on our planet even in the most extreme environments prokaryotes are very flexible metabolically so they are able to adjust their feeding to the available natural resources

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web there are some key ingredients that a cell needs in order to be a cell regardless of whether it is prokaryotic or eukaryotic all cells share four key components the plasma membrane is an outer covering that separates the cell's interior from its surrounding environment

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web dec 28 2021 answer remind them of the important roles prokaryotes play in decomposition and freeing up nutrients in biogeochemical cycles remind them of the many prokaryotes that are not human pathogens and that fill very specialized niches furthermore our normal bacterial symbionts are crucial for our digestion and in

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web prokaryotes are single celled organisms that lack a nucleus they also lack other membrane bound organelles prokaryotes are tiny and sometimes bothersome but they are the most numerous organisms on earth without them the world would be a very different place prokaryotes are the simplest organisms