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Worksheet Chemistry الملف

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Acid & Base Live worksheet

1. Which of the following is a characteristic of a strong acid?

- a) It has a high pH value
- b) It completely ionizes in water
- c) It reacts with metals to produce hydrogen gas
- d) It feels slippery to the touch

2. Which of the following is a characteristic of a weak acid?

- a) It has a low pH value
- b) It completely ionizes in water
- c) It reacts with metals to produce hydrogen gas
- d) It only partially ionizes in water

3. Which of the following is a characteristic of a strong base?

- a) It has a high pH value
- b) It completely ionizes in water
- c) It reacts with nonmetals to form oxides
- d) It is a poor conductor of electricity

4. Which of the following is a characteristic of a weak base?

- a) It has a low pH value
- b) It completely ionizes in water
- c) It reacts with nonmetals to form oxides
- d) It only partially ionizes in water

5. Which of the following is an example of an amphoteric substance?

- a) Hydrochloric acid (HCl)
- b) Sodium hydroxide (NaOH)
- c) Water (H₂O)
- d) Nitric acid (HNO₃)

6. Which of the following is a Lewis base?

- a) HCl
- b) NaOH
- c) NH₃
- d) H₂SO₄

7. Which of the following is a Bronsted-Lowry acid?

- a) NH₃
- b) H₂O
- c) NaOH
- d) CH₃COOH

8. Which of the following is a conjugate acid-base pair?

- a) HCl and NaCl
- b) H₂SO₄ and HCl
- c) NH₃ and NH₄⁺
- d) NaOH and H₂O

9. Which of the following is a buffer solution?

- a) A solution of HCl and NaCl
- b) A solution of NaOH and water
- c) A solution of acetic acid and sodium acetate
- d) A solution of sodium chloride and water

10. Which of the following is a common property of both acids and bases?

- a) They both react with metals to produce hydrogen gas
- b) They both conduct electricity when dissolved in water
- c) They both have a pH of 7 when in a neutral solution
- d) They both taste sour.