Answer Key: What Are Acids & Bases? Video Questions

Instructions
While watching the ACS Chemistry Basics video about acids and bases, answer the following questions:

1. What do all acids do when dissolved in water?
   Produce H⁺ (hydrogen) ions

2. When was the pH scale developed?
   1909

3. What numbers on the pH scale indicate an acid?
   Anything less than 7 (0-6)

4. What numbers on the pH scale indicate a base?
   Anything greater than 7 (8-14)

5. What is the chemical difference between acids and bases?
   Acids produce hydrogen ions, bases accept them. In water, acids produce H⁺ (hydrogen) ions and bases produce OH⁻ (hydroxide) ions.

6. What is the reaction between acids and bases called?
   Neutralization reaction

7. What do we call a substance that can act as both an acid and a base?
   Amphoteric