Name		Date	Class	

TEACHING TRANSPARENCY WORKSHEET



The pH Scale

Teaching Transparency Worksheets

Use with Chapter 18, Section 18.3

1.	What is the pH of a solution with a [H ⁺] of 10 ⁻⁸ ?
2.	What is the pOH of a solution with a [OH ⁻] of 10 ⁻¹¹ ?
3.	What is the pH of a solution that has a [OH ⁻] of 10 ⁻² ?
4.	What is the pOH of a solution that has a [H ⁺] of 10 ⁻⁵ ?
5.	What do you notice about the product of [H ⁺] and [OH ⁻] for any aqueous solution?
6.	What do you notice about the sum of pH and pOH for any aqueous solution?
7.	Which is more acidic, a solution with a pH of 6 or one with a pH of 9?
8.	Which is more basic, a solution with a pOH of 7 or one with a pOH of 12?
9.	Which is more acidic, a solution with a pH of 5 or one with a pOH of 10?
10.	Which is more basic, a solution with a pH of 8 or one with a pOH of 12?
11.	Stomach contents can have a pH of 3. Are stomach contents acidic, basic, or neutral?
12.	Pure water has a pOH of 7. Is pure water acidic, basic, or neutral?
13.	Normal rain has a pH of approximately 6. Is normal rain strongly acidic, slightly acidic, neutral, slightly basic, or strongly basic?
14.	Acid precipitation is often a problem in industrialized areas. What might you expect the pH of acid rain to be?

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