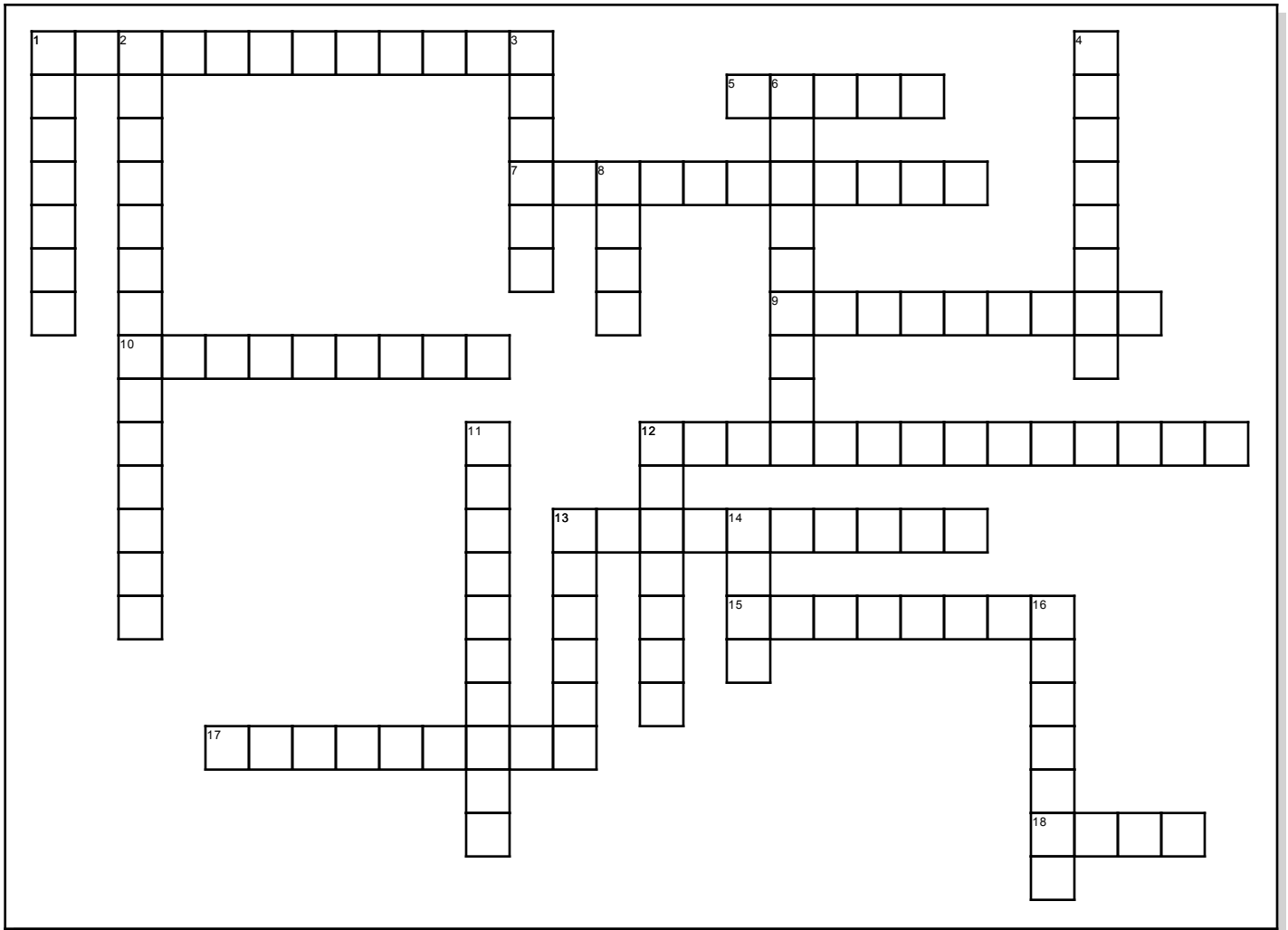


Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

Physical Science Grade 8

## Chapter 7 Acids, Bases, and Solutions

**Instructions:** Complete the crossword puzzle. Use the clues to help identify the words.



### Across

1. \_\_\_\_ solution: A mixture that has a lot of solute dissolved in a certain amount of solvent.
5. pH \_\_\_\_: A range of values used to express the concentration of hydrogen ions in a solution.
7. \_\_\_\_ solution: A mixture that contains less dissolved solute than is possible at a given temperature.
9. \_\_\_\_ solution: A mixture that contains as much dissolved solute as is possible at a given temperature.
10. A compound that changes color in the presence of an acid or a base.
12. \_\_\_\_ solution: A mixture that has more dissolved solute than is predicted by its solubility at a given temperature.
13. A measure of how much solute can dissolve in a solvent at a given temperature.
15. A well mixed mixture containing a solvent and at least one solute that has the same properties throughout.
17. \_\_\_\_ ion: A negatively charged ion made of oxygen and hydrogen, OH.

18. A substance that tastes sour, reacts with metals and carbonates, and turns blue litmus red.

## Down

1. A mixture containing small, undissolved particles that do not settle out
2. A reaction of an acid with a base, yielding a solution that is not as acidic or basic as the starting solutions were.
3. \_\_\_\_ solution: A mixture that has only a little solute dissolved in a certain amount of solvent.
4. \_\_\_\_ ion: A positively charged ion ( $H^+$ ) formed of a \_\_\_\_ atom that has lost its electron.
6. The way in which acids react with some metals so as to eat away the metal.
8. An ionic compound made from the neutralization of an acid with a base.
11. A mixture in which particles can be seen and easily separated by settling or filtration.
12. The part of a solution that is present in the largest amount and dissolves a solute.
13. The part of a solution present in a lesser amount and dissolved by the solvent
14. A substance that tastes bitter, feels slippery, and turns red litmus paper blue.
16. A word used to describe a solution with a pH of 7.