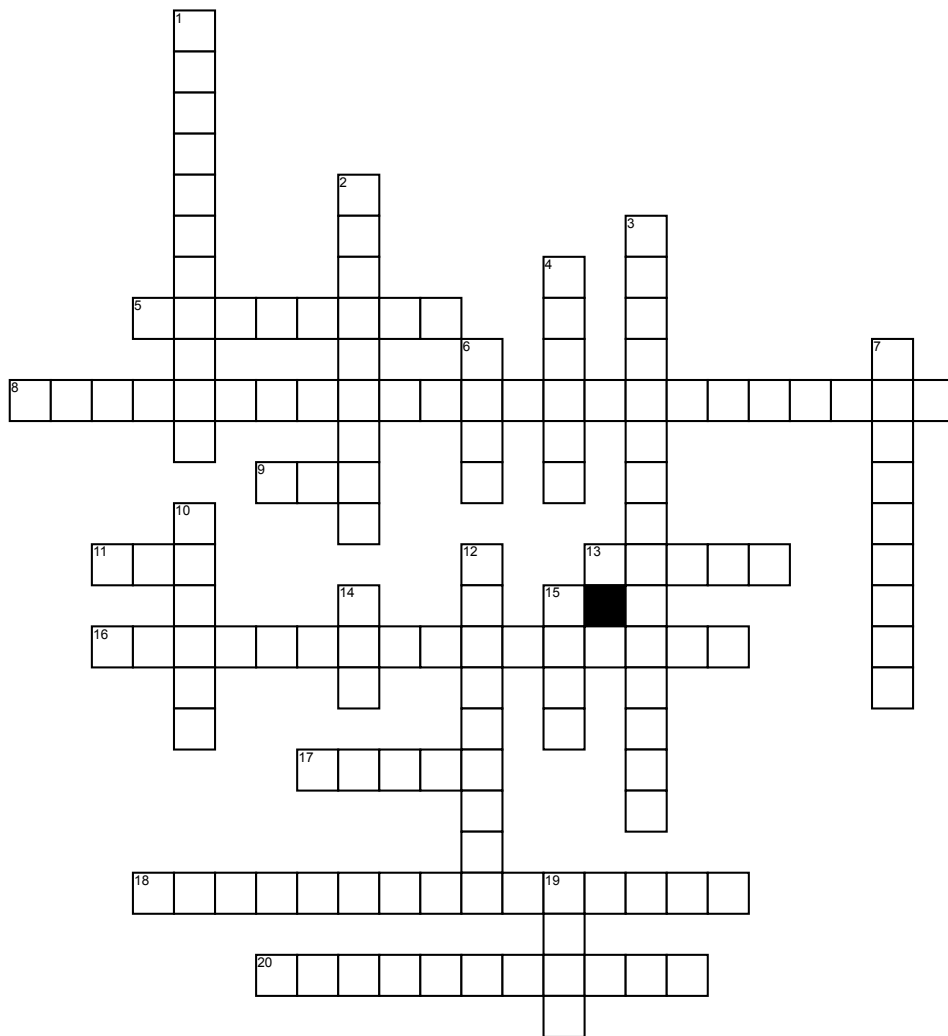


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# crossword puzzle



**Across**

- 5. make a \_\_\_\_\_ chart to find the ionic compound
- 8. what holds an ionic bond together ?
- 9. noble gasses have \_\_\_\_ dots on all four sides
- 11. binary compounds end in \_\_\_\_\_
- 13. how many valence electrons does fluorine have?
- 16. add roman numerals to \_\_\_\_\_

- Down**
- 17. how many valence electrons does helium have ?
  - 18. name this compound  $Al_2S_3$
  - 20. high melting points do not conduct \_\_\_\_\_ when solid?
  - 1. binary compounds only have \_\_\_\_\_
  - 2. the positive \_\_\_\_\_ number and the negative cancel
  - 3. solids form at \_\_\_\_\_
  - 4. magnesium fluoride is a \_\_\_\_\_ compound

- 6. ionic compounds can be a liquid only if the temperature is really \_\_\_\_\_
- 7. what attracts negatives ?
- 10. what type of elements form cations ?
- 12. electrons transfer from the metals to the \_\_\_\_\_
- 14. what do polyatomic ions end with ?
- 15. the net charge of all compounds is ?
- 19. the formula compound for lithium chloride is ?

**Word Bank**

- |                  |             |                   |                           |
|------------------|-------------|-------------------|---------------------------|
| room temperature | high        | transition metals | two elements              |
| ide              | nonmetals   | binary            | eight                     |
| ate              | lewis dot   | positives         | two                       |
| metals           | seven       | zero              | LiCl                      |
| oxidation        | electricity | aluminum sulfide  | electro static attraction |