

Apply - Periodic Table Trends I

Directions: For each of the following pairs of elements, circle the element that you would predict would have the highest boiling point.

1. Fe and As
2. Li and Rb
3. Re and Rn
4. V and F

Directions: For each of the following pairs of elements, circle the element that you would predict would have the lowest melting point.

5. Al and Tl
6. B and Ne
7. Br and B
8. Lu and P

Directions: For each of the following elements, predict whether or not the element is likely to be a good conductor of heat and electricity. Justify your answer to the right.

9. Cr Y or N

10. O Y or N

11. Fe Y or N

12. Si Y or N

Directions: For each of the following elements, predict the element's state of matter at room temperature:

13. Mn solid liquid gas

14. C solid liquid gas

15. Ne solid liquid gas

16. Hg solid liquid gas

Directions: For each of the following elements, write the number of valence electrons that an atom of that element has in the space to the right.

17. Oxygen _____

18. Iodine _____

19. Calcium _____

20. Aluminum _____