

Periodic Table Relationships

In each of the following sets of terms, three of the terms are related. One term does not belong. Read each group of terms, identify the characteristic common to three of the terms, and then underline the term that does *not* belong.

1. vertical column, group, period, family
2. days of the week, phases of the moon, months of the year, grades in school
3. sodium, alkali metal, 2 valence electrons, Family IA
4. symbol, atomic number, name of element, density
5. atomic mass, melting point, density, flammability
6. families, periods, seven, horizontal rows
7. high melting point, positive ion, nonmetal, shiny
8. metal, boron, silicon, antimony
9. transition element, lose or share electrons, gold, chlorine
10. nonmetals, poor conductors, lose electrons, negative ions
11. inactive metal, alkaline earth metal, magnesium, Family IIA
12. helium, halogen, neon, argon
13. sodium, aluminum, sulfur, fluorine
14. complete outer energy level, noble gas, gains 1 electron, unreactive
15. halogen, chlorine, arsenic, bromine
16. Family VA, oxygen family, 6 valence electrons, gains 2 electrons
17. pattern of valences, order of atomic mass, Mendeleev, order of atomic number
18. actinoid series, elements 89–102, Family IIA, period 7