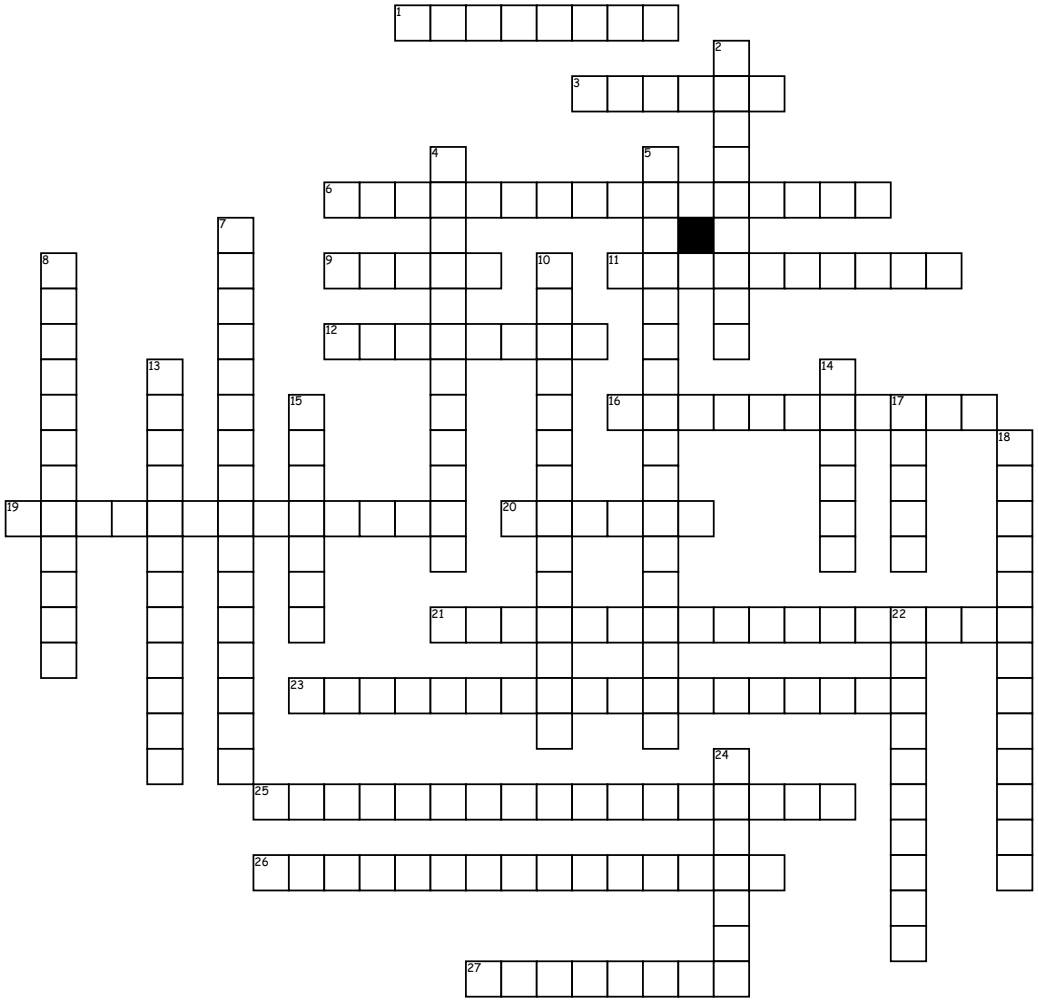
Name: _____ Date: _____ Period: _____

Unit 2



Across

1. Diameter of atom unit

3. A subatomic particle with a positive charge

6. Are molecules composed of only two atoms, of the same or different chemical elements

9. The basic unit of a chemical element

11. An element whose properties are intermediate between those of metals and solid nonmetals

12. A subatomic particle with negative charge

16. A beam of electrons emitted from the cathode of a high-vacuum tube

19. The big chart we always look at in class

20. A positively charged ion, i.e., one that would be attracted to the cathode in electrolysis

21. A formula that shows the arrangement of atoms in the molecule of a compound

23. A particle smaller than an atom or a cluster of such particles

25. A formula giving the proportions of the elements present in a compound but not the actual numbers or arrangement of atoms

26. A set of chemical symbols showing the elements present in a compound and their relative proportions, and in some cases the structure of the compound

27. Two or more forms of the same element equally of # of Protons and different # nuetrons

Down

2. An element or substance that is not a metal

4. Number of protons in the nucleus

5. A formula giving the number of atoms of each of the elements present in one molecule of a specific compound

7. 1.602 x 10^-19

8. The number of protons in the nucleus of an atom, which determines the chemical properties of an element and its place in the periodic table

10. 1.66 x 10^-27kg

13. A compound of hydrogen and carbon, such as any of those that are the chief components of petroleum and natural gas

14. A solid material that is typically hard, shiny, malleable, fusible, and ductile, with good electrical and thermal conductivity

15. A subatomic particle without a charge

17. A negatively charged ion, i.e., one that would be attracted to the anode in electrolysis

18. A compound of uranium spontaneously emits high-energy radiation

22. Total number of protons and neutrons in a nucleus

24. The center

Word Bank

Nonmetals	angstrom	Electron	Cation	Neutron
Hydrocarbons	Isotopes	Proton	Empirical Formulas	Atomic Weight
Cathode Rays	Atoms	Molecular Formulas	Periodic Table	Subatomic Particles
Metalloids	Diatomic Molecule	Structural Formula	Metals	Nucleus
Anion	Atomic number	Chemical Formula	Radioactivity	Electronic Charge
Atomic Mass Unit	Mass Number			