Periodic Table Puzzle - Answer Key

Down:

- 1. IRON I have 26 protons.
- 3. HYDROGEN I am not really an alkali metal, but since I have only 1 electron I behave like them.
- 4. NICKEL I am a metal with 28 electrons.
- 7. ALUMINUM I am a member of the boron family and am the most abundant metal in the Earth's crust.
- 8. OXYGEN I am a gas with 8 protons and 8 neutrons.
- 10. LEAD I am a member of the carbon family often mistaken for the end of your pencil.
- 12. MERCURY I am a metal that is liquid at room temperature.
- 14. SILVER My atomic number is 47 and I am used to make photographic film.
- 15. CALCIUM I have 20 neutrons and am found in your teeth and bones.
- 16. PHOSPHORUS I am a member of the nitrogen family with 16 neutrons.
- 18. FLUORINE I am a gas with a mass number of 19.
- 19. POTASSIUM I am the first element in the fourth period used in making fertilizer.
- 22. TIN You can find me in the carbon family in the fifth period.

Across

- 2. CHLORINE My atomic mass is 35.453.
- 5. SULFUR I have 2 electrons in the first shell, 8 in the second shell, and 6 in the third shell.
- 6. CARBON I am the head of the carbon family known as the "basis of life".
- 9. GOLD My atomic number is 79.
- 11. MANGANESE I am a transition metal with 25 electrons.
- 13. NITROGEN I make up 78% of the air and am found in the 15th group.
- 14. SODIUM I am a silvery white metal used to make salt.
- 17. MAGNESIUM I am a member of the alkaline earth metals used to make fireworks and medicines.
- 20. HELIUM I am a noble gas with 2 electrons.
- 21. SILICON I am the 2nd most abundant element in the Earth's crust and have 14 neutrons.
- 23. IODINE I am a member of the halide family with an atomic number of 53.
- 24. ZINC I am a transition metal with 30 electrons useful in making paint.
- 25. BROMINE I am the only element in the halide family that is a liquid.