

# Periodic Table Puzzle

Name \_\_\_\_\_

## CLUES:

### Down:

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

### Across:

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