

Name \_\_\_\_\_ Date \_\_\_\_\_ Science Period \_\_\_\_\_

## The Periodic Table

Go to [www.webelements.com](http://www.webelements.com) and look at the different elements of the periodic table. The home page will look like this:

The screenshot shows the WebElements website in a Windows Internet Explorer browser. The page title is "WebElements Periodic Table of the Elements - Windows Internet Explorer provided by George West ISD". The address bar shows "http://www.webelements.com/". The page content includes a navigation menu with "Elements", "Compounds", "Periodicity", "Chemistry Books (USA)", "Chemistry Books (UK)", "News", "Shop", and "Chemdex". Below the menu is a search prompt: "What do you want to know about the chemical elements?". There are several sub-menus for topics like "The essentials", "History", "Contents", "Uses", "Geology", "Biology", "Compounds", "Electronegativity", "Bond enthalpies", "Lattice energies", "Physics", "Pictures", "Allotropes", "Chemistry", "Crystal structures", "Thermochemistry", "Atoms", "Atom and ion sizes", "Isotopes", "NMR", and "Orbital properties". The main content area features a periodic table with the following structure:

| Group    | 1        | 2        | 3        | 4        | 5        | 6        | 7        | 8        | 9        | 10       | 11       | 12       | 13       | 14       | 15       | 16       | 17       | 18       |          |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Period 1 | 1<br>H   |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 2<br>He  |          |
| Period 2 | 3<br>Li  | 4<br>Be  |          |          |          |          |          |          |          |          |          |          | 5<br>B   | 6<br>C   | 7<br>N   | 8<br>O   | 9<br>F   | 10<br>Ne |          |
| Period 3 | 11<br>Na | 12<br>Mg |          |          |          |          |          |          |          |          |          |          | 13<br>Al | 14<br>Si | 15<br>P  | 16<br>S  | 17<br>Cl | 18<br>Ar |          |
| Period 4 | 19<br>K  | 20<br>Ca | 21<br>Sc | 22<br>Ti | 23<br>V  | 24<br>Cr | 25<br>Mn | 26<br>Fe | 27<br>Co | 28<br>Ni | 29<br>Cu | 30<br>Zn | 31<br>Ga | 32<br>Ge | 33<br>As | 34<br>Se | 35<br>Br | 36<br>Kr |          |
| Period 5 | 37<br>Rb | 38<br>Sr | 39<br>Y  | 40<br>Zr | 41<br>Nb | 42<br>Mo | 43<br>Tc | 44<br>Ru | 45<br>Rh | 46<br>Pd | 47<br>Ag | 48<br>Cd | 49<br>In | 50<br>Sn | 51<br>Sb | 52<br>Te | 53<br>I  | 54<br>Xe |          |
| Period 6 | 55<br>Cs | 56<br>Ba | *        | 71<br>Lu | 72<br>Hf | 73<br>Ta | 74<br>W  | 75<br>Re | 76<br>Os | 77<br>Ir | 78<br>Pt | 79<br>Au | 80<br>Hg | 81<br>Tl | 82<br>Pb | 83<br>Bi | 84<br>Po | 85<br>At | 86<br>Rn |

To find information about a specific element, find its symbol and click on it.

Use the web site to complete the chart for each element. Then spend some time exploring other elements from the periodic table.

Element: Neon

Symbol: \_\_\_\_\_

Atomic Number: \_\_\_\_\_

Atomic Weight \_\_\_\_\_

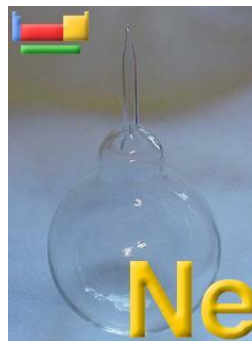
Group: \_\_\_\_\_

Period: \_\_\_\_\_

Color: \_\_\_\_\_

What color does neon glow? \_\_\_\_\_

Who were the two scientists that discovered neon? (Hint: click on "history" on the right hand side of the page). \_\_\_\_\_



Element: Oxygen

Symbol: \_\_\_\_\_

Atomic Number: \_\_\_\_\_

Atomic Weight \_\_\_\_\_

Group: \_\_\_\_\_

Period: \_\_\_\_\_

Color: \_\_\_\_\_

How much of the human body is oxygen? \_\_\_\_\_

Who is credited for the "discovery" of oxygen (Hint: click on "history" on the right hand side of the page). \_\_\_\_\_



Element: Calcium

Symbol: \_\_\_\_\_

Atomic Number: \_\_\_\_\_

Atomic Weight \_\_\_\_\_

Group: \_\_\_\_\_

Period: \_\_\_\_\_

Color: \_\_\_\_\_

Who is credited for the "discovery" of calcium? \_\_\_\_\_



Element: Iron

Symbol: \_\_\_\_\_

Atomic Number: \_\_\_\_\_

Atomic Weight \_\_\_\_\_

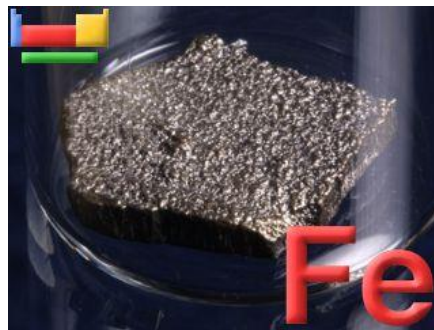
Group: \_\_\_\_\_

Period: \_\_\_\_\_

Color: \_\_\_\_\_

Is iron magnetic? \_\_\_\_\_

How old are some iron artifacts? \_\_\_\_\_



Element: Copper

Symbol: \_\_\_\_\_

Atomic Number: \_\_\_\_\_

Atomic Weight \_\_\_\_\_

Group: \_\_\_\_\_

Period: \_\_\_\_\_

Color: \_\_\_\_\_

What is the latin name for copper? \_\_\_\_\_

What is the alchemical symbol for copper? \_\_\_\_\_



A piece of native copper

Element: Zinc

Symbol: \_\_\_\_\_

Atomic Number: \_\_\_\_\_

Atomic Weight \_\_\_\_\_

Group: \_\_\_\_\_

Period: \_\_\_\_\_

Color: \_\_\_\_\_

What were zinc ores used to make? \_\_\_\_\_

Who discovered zinc? \_\_\_\_\_

