Instructions for the carrier:

Pass this onto Glorfindel of Imladris. He will be wearing a pair of gloves, and carrying another. In order to let him know that you have the required documentation, carry a carrot.

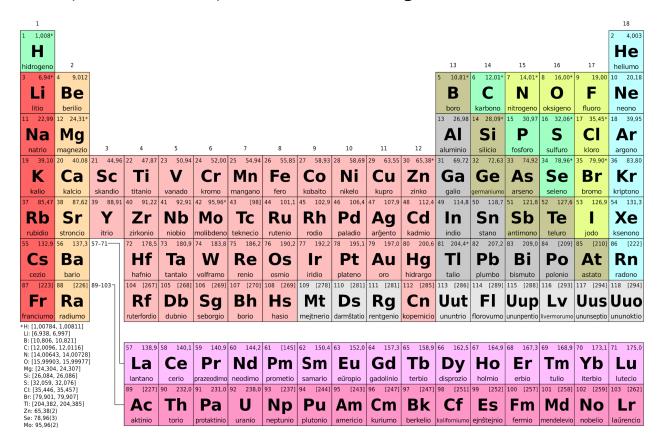
Divulging information to any other will compromise our hobbits in the field.

Sindar Intelligence,

The Noldor have discovered a thing which they call carbon. It strengthens their steel and makes it able to bend, but not be broken. Through Maeglin son of Eol, we have discovered its secrets.

Curufin the Crafty has discovered the element not ten days past! He has called it in the Quenya name "Carbo," which means charcoal. Curufin discovered this mystical thing with the help of Anatar, Lord of Gifts, who we suspect to be Sauron in disguise.

Attached is a drawing of the things which Curufin calls "Elements." These could become very useful for future endeavors. Also a special thanks to the hobbit, Bullroarer Took, for his time in making the sketch:



You will see that Carbon is in the second period, which are the horizontal lines. It is labeled "C," and has a number of six above it. This is extremely important as this six tells us how many protons, neutrons, and electrons carbon has. It has a mass of 12.011. As you know, I am not skilled with the workings of earth's raw materials, as wood is all I need to make my weapons of war and hunt. Carbon is as the Noldor say a "Reactive nonmetal." The elements' configuration is as follows: 1s2 2s2 2p2, and this strange element has four valence electrons. Carbon has an atomic radius of 67 PM and has fifteen different isotopes. In its most common isotope, which is carbon 12, carbon has six of everything.

Maeglin has learned from the Noldor that carbon is in the air we breathe at room temperature! Its density at STP is 0.00196 g/mL, and its electronegativity is 2.55. Last, but not least, carbon melts at 3367 degrees on the Feanorian scale and it boils at 4827 degrees on the same scale. I pray to Manwe that this information can help the Elves prepare for war against the greedy Noldor.

Carbon was seen in the following equations in one of Curufin's workshops:

1) CO2

- 2) CO
- 3) CS2
- 4) C6H12O6
- 5) C (Carbon and Graphite)

Unfortunately, this element will not explode in any way. We will not be able to blow up our enemies with this element. We will be able to use it in

the making of steel though. It strengthens the iron, and makes it harder to break. We will be able to use this knowledge when we make our weapons. In addition, Carbon is everywhere, so it will not be hard to come by.