

Name _____

Date _____

Atoms and Elements

A. Content Area Words

The words in the box are all related to atoms. Look each word up in a glossary. Then write it next to the definition.

proton	nucleus	neutron
electron	atomic number	element

- center of an atom _____
- particle within an atom, with a negative electrical charge _____
- particle within an atom, with a positive electrical charge _____
- particle within an atom, with no charge _____
- the number of protons in an atom _____
- substance made of only one kind of atom _____

B. Prefix *non-*

The prefix *non-* means “not.” When it is added at the beginning of a word, it changes the word’s meaning. Look up the words *metal* and *nonmetal* in a glossary. Write either word next to the materials in the list.

- | | |
|-----------------|-------------------|
| 7. gold _____ | 11. wood _____ |
| 8. glass _____ | 12. plastic _____ |
| 9. copper _____ | 13. silver _____ |
| 10. iron _____ | 14. ceramic _____ |

15. Write a few sentences to explain how the prefix *non-* affected the meaning of the word *metal*.

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proton	nucleus	neutron
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- | | |
|---|----------------------|
| 1. center of an atom | <u>nucleus</u> |
| 2. particle within an atom, with a negative electrical charge | <u>electron</u> |
| 3. particle within an atom, with a positive electrical charge | <u>proton</u> |
| 4. particle within an atom, with no charge | <u>neutron</u> |
| 5. the number of protons in an atom | <u>atomic number</u> |
| 6. substance made of only one kind of atom | <u>element</u> |

B. Prefix *non-*

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- | | | | |
|-----------|-----------------|-------------|-----------------|
| 7. gold | <u>metal</u> | 11. wood | <u>nonmetal</u> |
| 8. glass | <u>nonmetal</u> | 12. plastic | <u>nonmetal</u> |
| 9. copper | <u>metal</u> | 13. silver | <u>metal</u> |
| 10. iron | <u>metal</u> | 14. ceramic | <u>nonmetal</u> |

15. Write a few sentences to explain how the prefix *non-* affected the meaning of the word *metal*. **Possible answer: The properties of metal are that it conducts heat and electricity, can be bent and rolled into sheets, and is usually shiny and often silver in color. A nonmetal has none of those properties.**