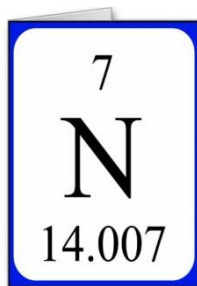


STUDY GUIDE: Matter, Atoms, Physical/Chemical Changes

1. A physical change does _____.
2. An example of a physical change is _____.
3. A chemical change does _____.
4. An example of a chemical change is _____.
5. Table sugar ($C_{12}H_{22}O_{11}$) and Salt (NaCl) are examples of _____.
6. Mass is the measurement of how much _____ an object contains.
7. All elements are composed of extremely small particles called _____.
8. Elements cannot be broken down _____ into other substances.
9. Matter is anything that _____ and has _____.
10. Several substances together that are NOT chemically combined are classified as _____.
11. Heating a liquid is part of its _____ property.
12. If a gas easily catches fire, it is called combustibility. This is an example of a _____ property.
13. Write down two common chemical formulas.

14. Vegetable soup is classified as a _____.
15. Malleability: _____.
16. Proton has a _____ charge.
17. Neutron has a _____ charge.
18. Electron has a _____ charge.
19. Where is most of the mass of an atom? _____
20. Where is most of the volume of an atom? _____
21. In the compound CO_2 (carbon dioxide), how many elements are there? _____
22. In the compound CO_2 (carbon dioxide), how many atoms are there? _____



23. What is the atomic mass of Nitrogen (N)? _____
24. What is the atomic number of Nitrogen (N)? _____
25. How many protons? _____ Electrons? _____ Neutrons? _____