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the myliteracy.com bulletin

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- Government
- Science
- Math
- Geography
- English
- Puzzles
- Business
- Vocabulary Words
- World History

Editor
G. Ernest Jones
gej@myliteracy.com

Outreach/Customer Service
W. Norton
cs@myliteracy.com

Project Coodinator/Consultant
K. Jones
kj@myliteracy.com

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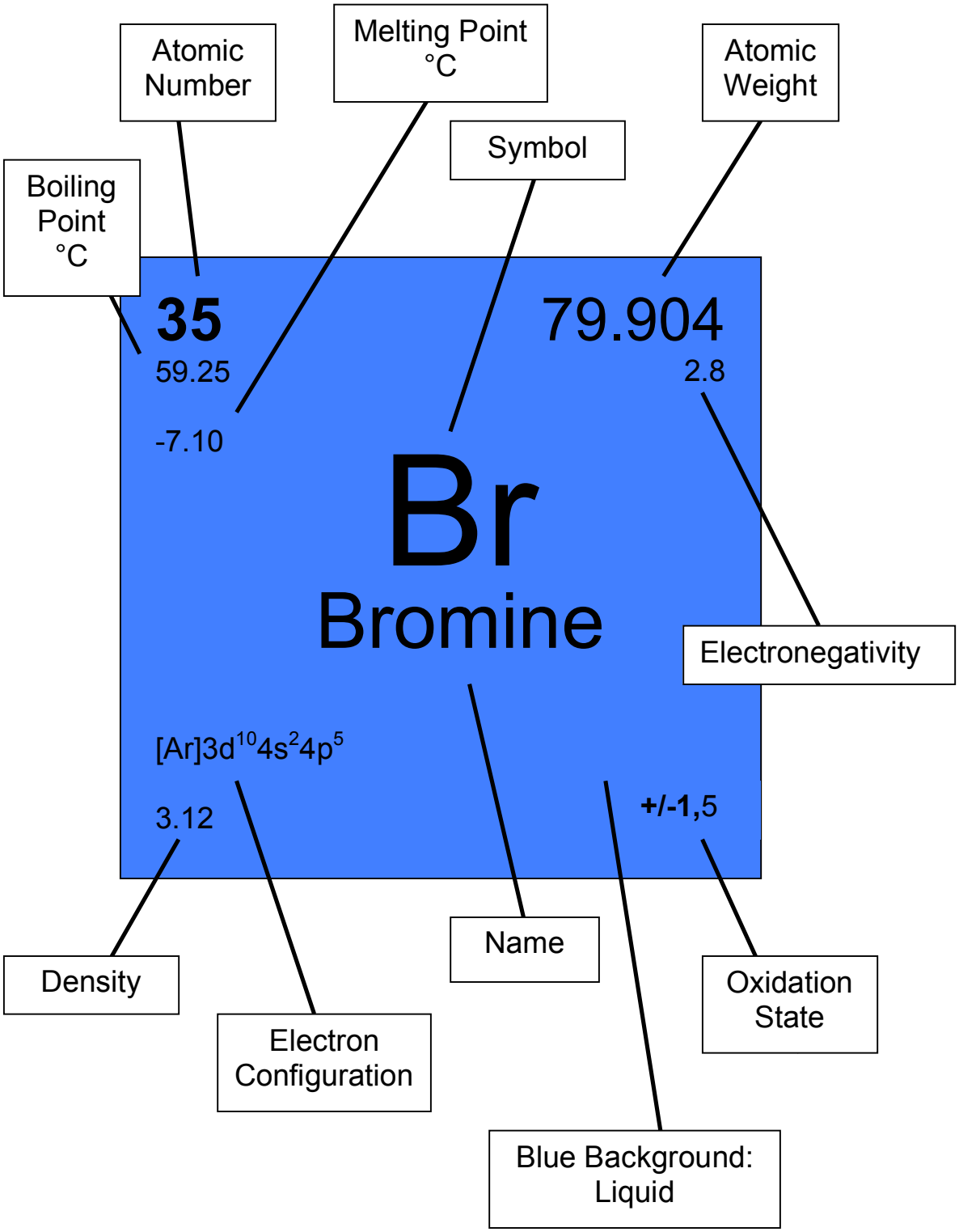
my Periodic Table



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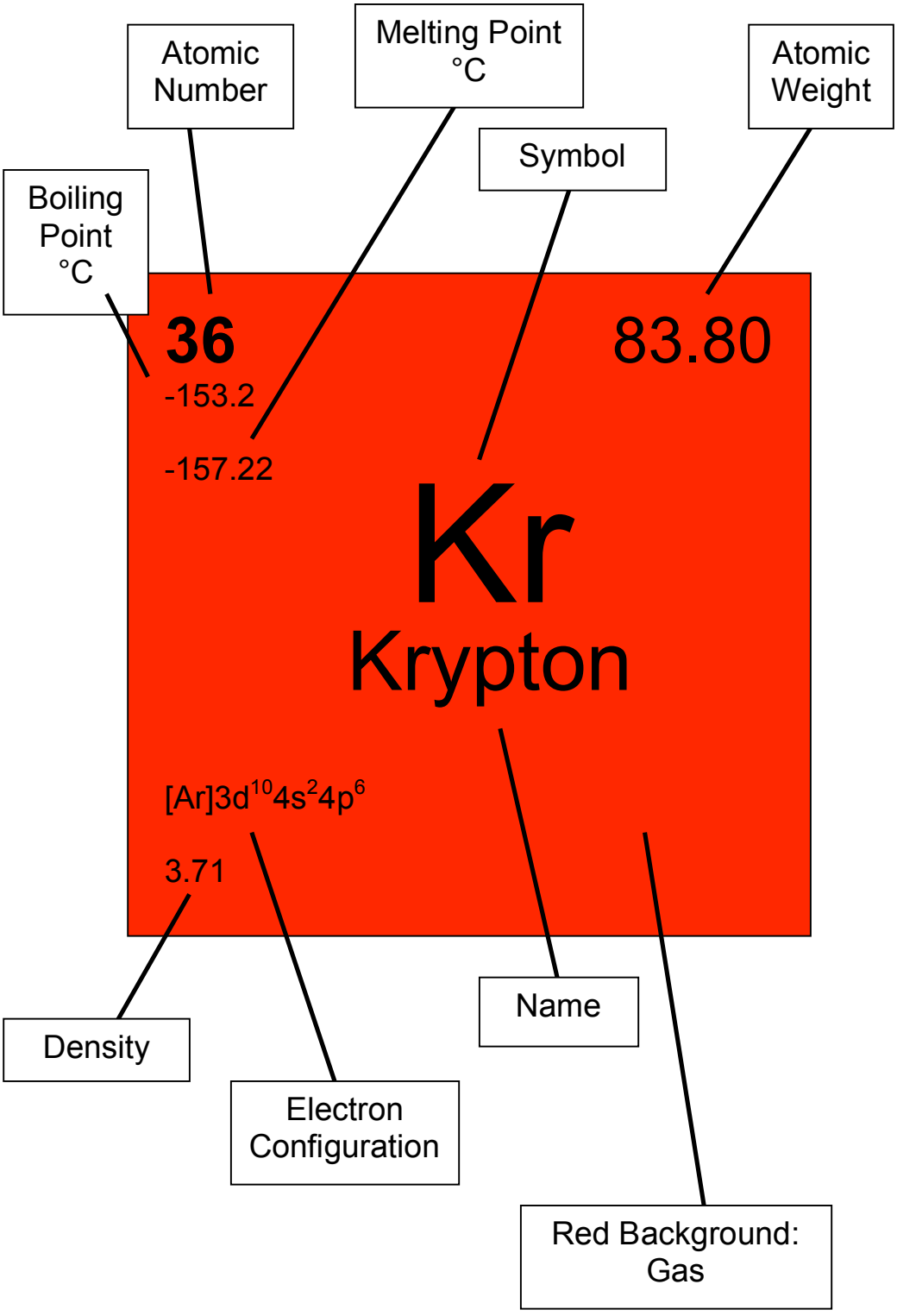

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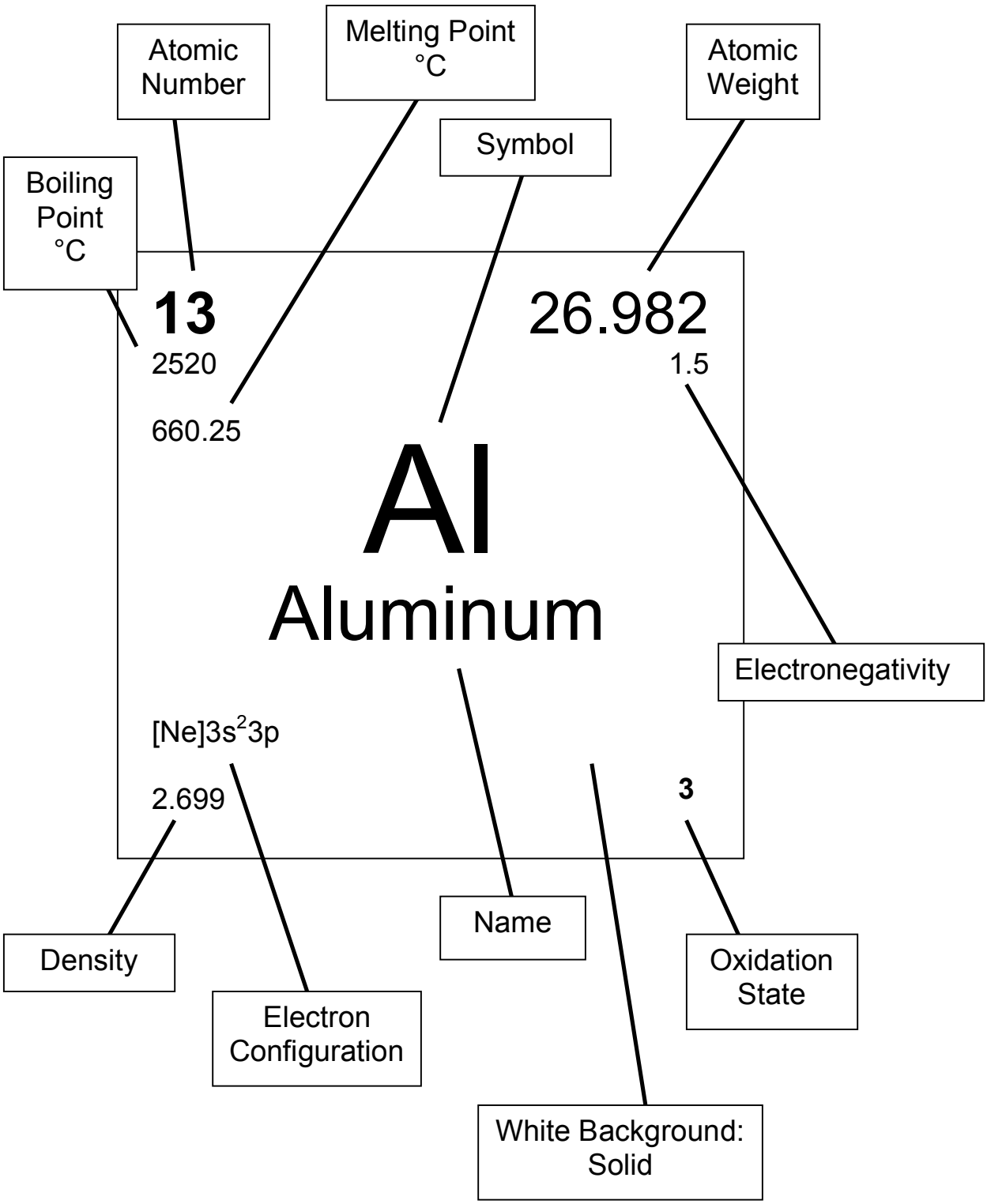

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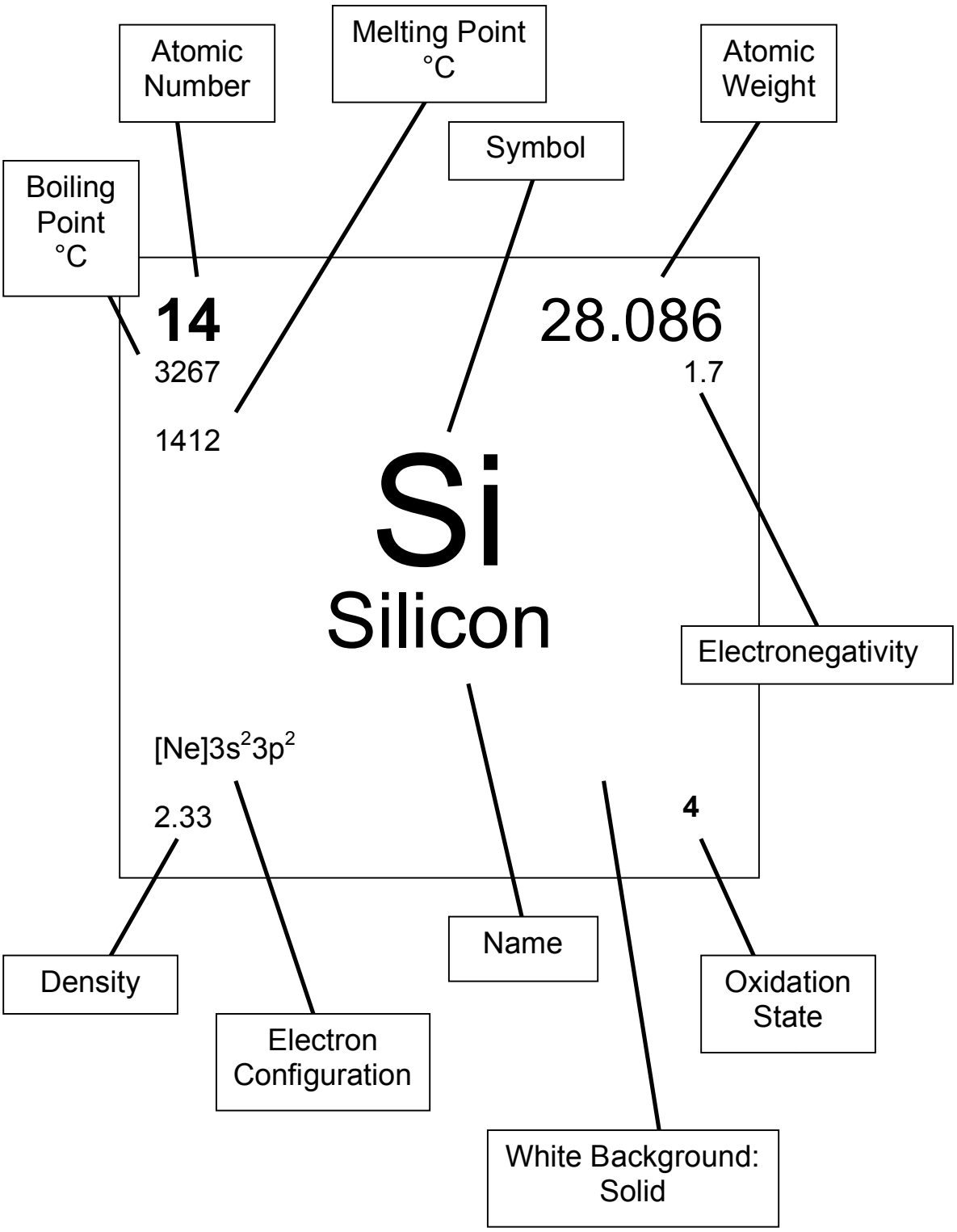


Understanding Numbers

Periodic Table A tabular arrangement of the elements according to their atomic numbers so that elements with similar properties are in the same column.

Atomic Number The number of protons in an atomic nucleus.

Atomic Weight The average mass of an atom of an element, usually expressed relative to the mass of carbon 12, which is assigned 12 atomic mass units.

Boiling Point The temperature at which a liquid boils at a fixed pressure, especially under standard atmospheric conditions.

Melting Point The temperature at which a solid becomes a liquid at standard atmospheric pressure.

Period A sequence of elements arranged in order of increasing atomic number and forming one of the horizontal rows in the periodic table.

Quiz:

(Look at the diagram on Pages 4 - 7 to find the answers for each element)

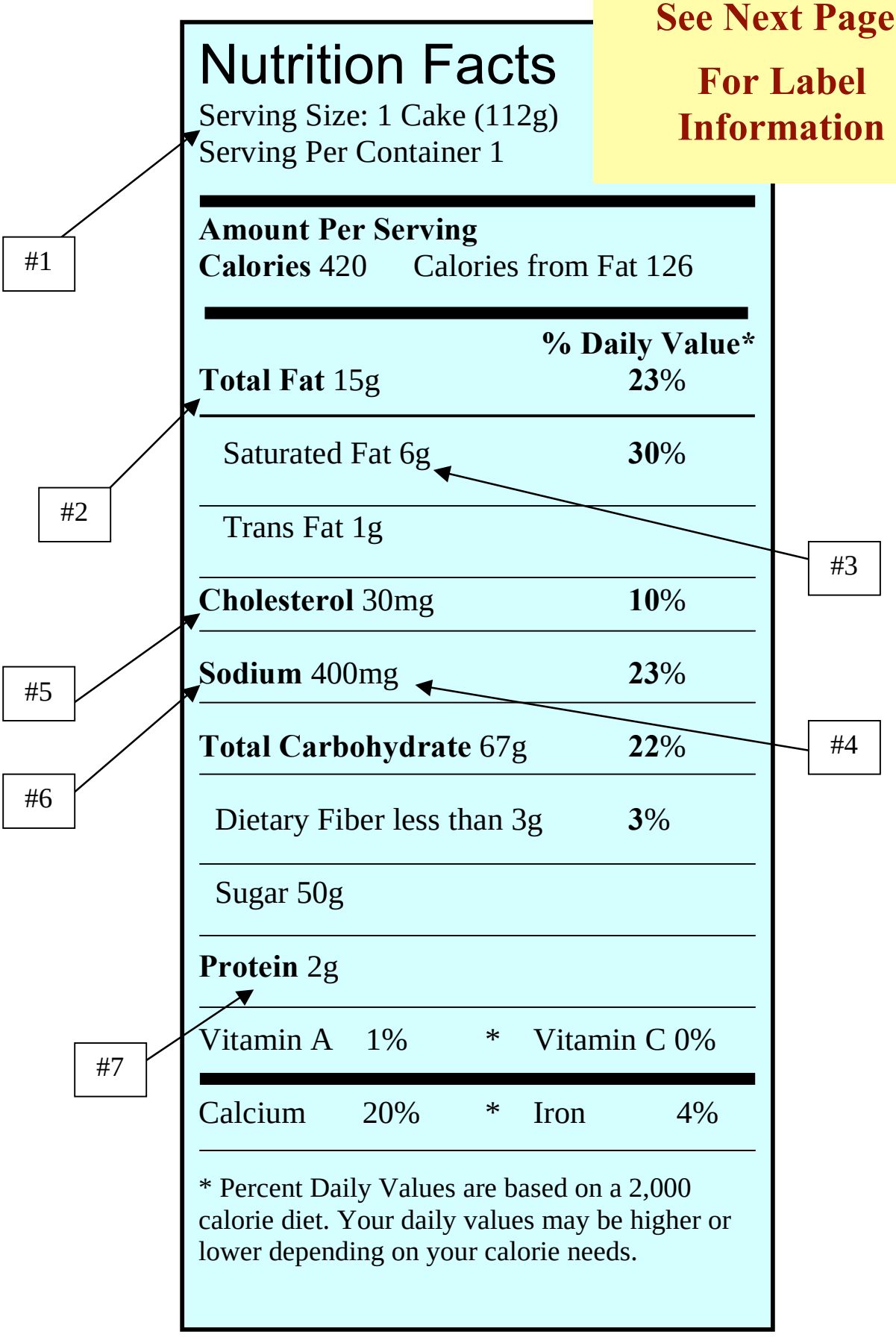
1. What is the name of the element shown in the diagram _____ ?
2. What is the symbol for the element _____ ?
3. What is the atomic weight _____ ?
4. What is the melting point of _____ ?
5. What is the boiling point of _____ ?
6. Is the element a liquid, a gas, a solid or artificially prepared _____ ?

Bonus Question:

7. Is the element in our atmosphere _____ ?

See Next Page:

For Label Information



Nutrition Facts

Serving Size: 1 Cake (112g)
Serving Per Container 1

Amount Per Serving
Calories 420 Calories from Fat 126

	% Daily Value*
Total Fat 15g	**23%**
Saturated Fat 6g	**30%**
Trans Fat 1g	
Cholesterol 30mg	**10%**
Sodium 400mg	**23%**
Total Carbohydrate 67g	**22%**
Dietary Fiber less than 3g	**3%**
Sugar 50g	
Protein 2g	

Vitamin A 1% * Vitamin C 0%

Calcium 20% * Iron 4%

* Percent Daily Values are based on a 2,000 calorie diet. Your daily values may be higher or lower depending on your calorie needs.

Nutrition:

#1
Serving Size: Nutrition Fact labels list a serving size, which is an amount of food such as 1 cracker, 1 cup of oatmeal, 2 cookies or 1 brownie. The nutrition label tells you how many nutrients are in that amount of food.

#2
Nutrition Facts labels also tell the percentage provided by that food of the recommended daily amount of a nutrient. The cake nutrition label says one serving of these snacks provide 23% of the amount of fat recommended to be eaten in one day

#3
Most nutrients are measured in grams also written as **g.**

#4
Some nutrients are measured in milligrams also written as **mg.** Milligrams are very tiny – there are one thousands milligrams in a gram.

#5 Cholesterol: is a lipid found in the cell membranes of all tissues, and it is transported in the blood plasma of all animals. Cholesterol is also considered a sterol (a combination steroid and alcohol). Because cholesterol is synthesized by all eukaryotes, trace amounts of cholesterol are also found in membranes of plants and fungi. The body synthesizes most of the cholesterol in the body and some has dietary origin. Cholesterol is more abundant in tissues, which either synthesize more or have more abundant densely packed membranes, for example, the liver, spinal cord and brain.

#6 Sodium: is a chemical element which has the symbol **Na**, atomic number 11, atomic mass 22.9898 g/mol, common oxidation number +1. Sodium is a soft, silvery white, highly reactive element and is a member of the alkali metals within "group 1" (formerly known as 'group IA'). It has only one stable isotope, ^{23}Na. It is also a component of many minerals, and it is an essential element for animal life. As such, it is classified as a "dietary inorganic macro-mineral."

#7 **Protein:** are large organic compounds made of amino acids arranged in a linear chain and joined together by peptide bonds between the carboxyl and amino groups of adjacent amino acid residues. The sequence of amino acids in a protein is defined by a gene and encoded in the genetic code.

General Biology

What 3 simple sugars have the empirical formula $C^6H^{12}O^6$? How many carbon atoms does each sugar have?

Answer:
Glucose, fructose, and galactose / 6

Photosynthesis - involves light and dark reactions

Protein synthesis – involves transcription and translation

Cell respiration – involves glycolysis, citric acid cycle, and electron, or hydrogen, transport

Chemosynthesis – involves use of energy from inorganic chemical reactions to produce sugar, or organic compounds

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What are the 2 major areas into which biology has been divided?

Answer:
Botany – the study of plants, and zoology, he study of animals.

Histology - the study of tissue

Entomology - the study of insects

Genetics - the study of biological inheritance

Ecology - the study of an organism reacting with its environment

Anatomy - the gross study of the human body

Immunology - the study of immunity from diseases

Embryology - the study of early animal development

Microbiology - the study of micro-organisms

Limnology - the study of pond life or fresh water

Chemistry

Name the 10 elements that were either known to or discovered by ancient man.

Answer: Carbon, copper, gold, iron, lead, mercury, silver, sulfur, tin, antimony. (Zinc is sometimes listed as having been known to ancient man)

The number on a fertilizer bag like 13-13-4 represent 3 elements. What are these elements?

Answer: Nitrogen, phosphorus and potassium (N, K_2O, and P_2O_5)

Hydrolysis is used to describe a chemical reaction. Give the reactant needed for any hydrolysis.

Answer: Water

Non-metal elements tend to form what type of ions?

Answer: Negative

What is the classification of an element that gives up electrons when forming a binary compound?

Answer: Metal

Name the famous physicist and chemist who won not only 1903 Nobel Prize in physics but also the 1911 Nobel Prize in chemistry.

Answer: Marie Curie