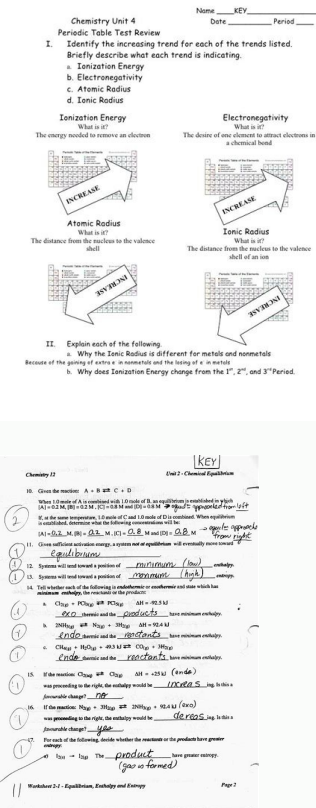
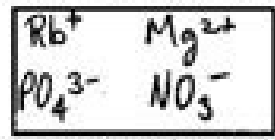


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19. An aqueous solution of rubidium phosphate (Rb_3PO_4) is mixed with an aqueous solution of magnesium nitrate and a precipitate forms.

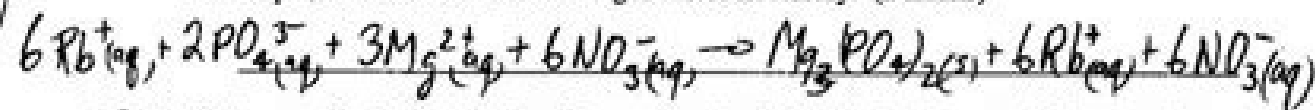
a) Draw an (ion-box) with the four ions involved with this reaction. (1 mark)



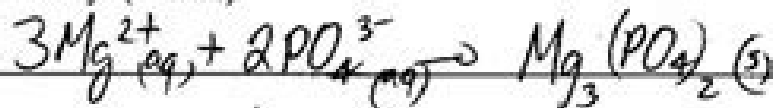
b) Write a *balanced formula equation* for this reaction. Include all subscripts and coefficients. (2 marks)



c) Write a balanced, *complete (total) ionic equation* for this reaction. Include all subscripts, coefficients and ion charges where necessary. (2 marks)



d) Write a *net ionic equation* for this reaction. Include all subscripts, coefficients and ion charges where necessary. (2 marks)



7
7

Name: _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

1) What is the conversion factor for the relationship between millimeters and centimeters?

- A) 1 mm / 1 cm
B) 10 mm / 1 cm
C) 1 cm / 1 mm
D) 100 mm / 1 cm
E) 10 cm / 1 mm

2) Which of the following measurements has three significant figures?

- A) 0.005 m
B) 510 m
C) 0.510 m
D) 0.051 m
E) 5100 m

3) Which of the following measurements are NOT equivalent?

- A) 25 mg = 0.025 g
B) 85 L = 0.185 kL
C) 150 msec = 0.150 sec
D) 84 cm = 8.4 mm
E) 24 dL = 2.4 L

4) How many centimeters are there in 57.0 in.?

- A) 22 cm
B) 0.0445 cm
C) 145 cm
D) 22.4 cm
E) 140 cm

5) What is the mass of 55 mL of ethyl alcohol, which has a density of 0.79 g/mL?

- A) 67.1 g
B) 41.9 g
C) 42 g
D) 67 g
E) 53 g

6) What is the density of a substance with a mass of 45.00 g and a volume of 26.4 mL?

- A) 1.70 g/mL
B) 1.7 g/mL
C) 0.59 g/mL
D) 0.587 g/mL
E) 45.0 g/mL

7) Which one of the following substances will float in gasoline, which has a density of 0.66 g/mL?

- A) table salt (d = 2.16 g/mL)
B) balsa wood (d = 0.16 g/mL)
C) sugar (d = 1.59 g/mL)
D) aluminum (d = 2.70 g/mL)
E) mercury (d = 13.6 g/mL)

Select the correct symbol for the element named.

- A) P
B) Po
C) Pt
D) K
E) Ko

8) Which element would have physical and chemical properties similar to chlorine?

- A) Ar
B) Br
C) S
D) O
E) F



Transcript Answer Key Unit 1 Matter, Chemical Trends, and Chemical Bonding Unit Preparation Questions (Assessing Readiness) (Student textbook pages 4-7) 1. e 2. e 3. Maps should correctly reflect the layout of the room and the location of each safety device listed. 4. Students' scripts should describe the setting, the materials needed, and the dialogue required. The steps for using the extinguisher are: pull the pin, aim the nozzle at the base of the fire, and squeeze the handle slowly while sweeping the spray from side to side. 5. Answers should be written in a persuasive tone and should present the potential hazards that are possible in even a procedure as simple as this. For example, spills that could damage clothes, and chemicals that could splash or drift into eyes. 6. Broken glass in the regular garbage could hurt the custodian. Having a special container for broken glass signals that safety precautions must be followed. 7. a. Material is flammable and combustible. b. The gas is under pressure. The canister might explode if heated or punctured. c. Material is poisonous and acts quickly with serious effects. d. Material is corrosive and can cause mild to severe chemical burns. 9. a. poisonous materials having immediate and serious toxic effects (scull and crossbones) b. flammable and combustible (flame over a line) c. corrosive material (head getting burned) d. compressed gas (gas tank outline) 10. b 1. a. He b. C c. Ca d. Na e. S f. O g. Ar h. F 1 12. a. phosphorus e. potassium b. aluminum f. lithium c. nitrogen g. hydrogen d. beryllium h. neon 3. Sample answer: 1 • The symbol is the first letter of the element name, such as H for hydrogen. • The symbol is the first and second letters of the element name, such as He for helium. • The symbol is the first and third letters of the element name, such as Mg for magnesium. • The symbol is based on the (original) name for the element in another language, such as W for tungsten (Wolfram). 14. Because each chemical symbol has only one capital letter in it, if two capital letters are written together it indicates two elements that are joined to form a compound. An incorrectly capitalized chemical symbol would be read as a different compound that would have different properties and undergo different reactions than were intended. 8. Sample answer: a. Keep flammable materials away from heat, sparks, and direct sunlight. b. Keep the canister away from heat and secure the canister to keep it from being dropped. c. Use protective equipment and procedures to prevent contact with the material. For example, work under a fume hood and wear gloves, an apron, and safety goggles. d. Wear protective gloves, an apron, and safety goggles. Chemistry 11 Answer Key Unit 1 • MHR TR 1 15. Incorrect Symbol Element Intended Correct Symbol b. Since limestone is an indicator for the presence of carbon dioxide, the carbon dioxide in the student's breath is causing the chemical change. Bo boron B F fluorine F Po phosphorus Po 30. a be beryllium Be 31. b Ch chlorine Cl Hy hydrogen H Ma magnesium Mg HE helium He Ni nitrogen N 2. a. positive b. negative c. negative d. positive 3 33. Electrons are negatively charged. After gaining electrons, an atom has more negatively charged electrons than positively charged protons, so the resulting ion is negatively charged. s sulfur S Ox oxygen O Si silicon Si 16. a. carbon and oxygen b. hydrogen and oxygen c. lithium and fluorine d. nitrogen and chlorine e. magnesium, nitrogen, and oxygen f. aluminum, sulfur, and oxygen g. calcium and sulfur 17. Universally recognizable symbols avoid ambiguity and potential confusion with possibly deadly results. They also reduce language barriers for sharing information. 18. The chemical symbol for carbon is C, not Ca, which represents calcium. 29. d 4. a. nitrate b. sulfate c. hydroxide d. carbonate 3 35. A metal and a non-metal form an ionic compound. 6. a. ionic b. molecular c. ionic d. molecular 3 37. a. ionic, KF c. molecular, N2O b. molecular, Pb3 d. ionic, Al(NO3)3 38. Electrons are transferred from one atom to another during the formation of an ionic compound. They are shared between two atoms during the formation of a molecular compound. 9. a. metals 3 b. cations (positive ions) 40. The names of ionic compounds include a metal's name and the name of a non-metal ending in -ide, or include the names of polyatomic ions which end in the prefixes -ate or -ite. The names of molecular compounds use prefixes that indicate the proportions of elements and include the names of non-metals but not metals. 19. c 21. d Chapter 1 Elements and the Periodic Table 22. a. bubbling and colour changes b. release of energy (light) Learning Check Questions 20. a 23. Sample answer: a burning candle 24. It can sense heat released (warm) or absorbed by (cool) the reaction. 25. Bubbles that were formed because of boiling rather than from gas formation. 26. Sample answer: If two colourless gases react to form a new colourless gas, the chemical change might not show an outward, visible sign. 27. a. Some chemical changes absorb energy. Light energy could cause a chemical change. b. Hydrogen peroxide is less effective as a disinfectant as light exposure changes it into water and oxygen. 28. a. A white precipitate is forming. MHR TR • Chemistry 11 Answer Key Unit 1 (Student textbook page 14) 1. (1) In the Thomson model of the atom, the positive charge is spread over the entire atom, whereas in the Rutherford model, the positive charge is contained in a very small volume at the centre of the atom. (2) In the Thomson model, the negative charges are embedded in the large positively charged region. In the Rutherford model, the negative charges orbit the tiny positive charge. 2. See the figure for answer 2 on page 639 of the student textbook. 3. The radius that Bohr calculated for the orbit of the electron in the hydrogen atom is the same as the average distance that Schrödinger calculated for the electron from the nucleus of the hydrogen atom. 4. Models represent an understanding of or idea about an object or concept. Chemists can use models to predict the properties of a substance and design further experiments to test and, if necessary, modify the model. 5. Dalton—All matter consists of tiny particles (called atoms). Atoms of each element are unique. Thomson—Atoms contain negatively charged particles that can be ejected from the atom. Bohr—Electrons exist only in certain allowed energy levels in an atom. 6. $2n^2$; $2 \times 8^2 = 2 \times 64 = 128$ (Student textbook page 26) 7. Mendeleev listed the elements vertically, in order of atomic mass (called atomic weight, at that time). When he came to an element with properties similar to one higher in the list, he started a new column by putting the next element beside the one that had similar properties. 8. When elements are arranged by atomic number, their chemical and physical properties recur periodically. Many elements have similar properties and these properties follow a pattern that repeats itself regularly. 9. Each column in the periodic table constitutes a group. Groups contain elements with similar chemical and physical properties. Each row in the periodic table constitutes a period. The atomic number of the elements increases sequentially across a period. The outermost electron shell that is occupied is the same for each element in a period. 10. Travelling across a period from left to right, the number of electrons in the valence shell increases until the last element in each period has a full valence shell (which indicates that it is a noble gas). 11. The elements in the periodic table are categorized in several different ways. In one case, elements are categorized by whether they are metals, metalloids, or non-metals. In another case, the elements are categorized by very specific chemical and physical properties. Elements are also categorized by dividing the periodic table into blocks. 12. See the flowchart in the selected answers on page 639 of the student textbook. (Student textbook page 34) 13. The radius of an atom is the radius of a sphere within which electrons spend 90 percent of their time. 14. Electrons exist in a region that can be described as a cloud rather than having defined boundaries. There is currently no way to directly measure the radius within which electrons spend 90 percent of their time. 15. As the charge of a nucleus increases, it exerts a greater force on the electrons. Thus, for electrons in a given energy level, the electrons are drawn closer to the nucleus. As a result, the size of the atom decreases across a period from left to right. 16. Electrons in filled shells reduce the effect of positive charge on the outer electrons. Thus, outer electrons are not as strongly attracted to the nucleus as they would be if the electrons in the lower energy levels were absent. As a result, the size of an atom increases from the top to the bottom of a group. 17. Increasing atomic number: oxygen (8), potassium (19), krypton (36), tin (50). Increasing size (atomic radius): oxygen (73 pm), krypton (112 pm), tin (140 pm), potassium (227 pm). As the atomic number increases going across a period from left to right, the nuclear charge increases, which means there is more pull on the electrons and therefore the atomic radius decreases. Thus, within a period, the progression of the atomic number and size are opposite. Going down a group, however, even though the atomic number increases, the effective nuclear charge is reduced due to shielding: the atomic radius therefore increases. Also, the number of occupied electron shells increases, making the atoms larger. 18. nuclear charge; number of occupied electron shells; shielding; number of valence electrons Caption Questions Figure 1.10 (Student textbook page 22): Columns represent periods. The length of the period depends on the number of electrons allowed in the highest energy electron shell. That number increases with period number. Figure 1.15 (Student textbook page 29): alkali metals: Group 1 alkaline earth metals: Group 2 actinoids: green ring around the outside of the right arm from Ac to Lr lanthanoids: orange ring inside the actinoid ring and including Lu halogens: Group 17 noble gases: Group 18 Chemistry 11 Answer Key Unit 1 • MHR TR Figure 1.18 (Student textbook page 33): Atomic radii get smaller from left to right across any period. Atomic radii get larger from the top, down in any group. The last three elements of each period have very similar atomic radii. The change in atomic radii across a period shows the most dramatic change between groups 2 and 13 and between groups 15 and 16 (Figure 1.22 (Student textbook page 36): Fluorine has the greatest electronegativity and francium has the smallest electronegativity. They are on diagonally opposed corners of the periodic table. Figure 1.23 (Student textbook page 37): Nuclei that can get closer to the outer electrons of another atom will attract those electrons with a greater force. Therefore, atoms with smaller radii will have a higher electronegativity compared with atoms with larger radii. Figure 1.25 (Student textbook page 38): Ionization energy, electron affinity, and electronegativity all follow the same trends. Atomic radius follows trends opposite to the other three. Section 1.1 Review Questions (Student textbook page 21) 1. Schrödinger's atom describes electrons as existing in regions of space, represented as electron clouds. His model was a mathematical equation that defined the atom in terms of energy. 2. By looking at the electron cloud model, you cannot determine the number of electrons in the atom or how many are in each energy level. 3. Phosphorus. It has five valence electrons, one electron pair, and three unpaired electrons. 4. See Figure 1.8 on page 15 of the student textbook. 81 Br; 35; 81; 35; 35; 46 9. a. bromine-81; 35 22 b. neon-22; 10Ne; 10; 22; 10; 10; 12 44 c. calcium-44; 20 Ca; 20; 44; 20; 20; 24 107 d. silver-107; 47Br; 47; 107; 47; 60 10. 28.08 u 11. Since the average atomic mass of yttrium and the mass of the isotope Y-89 are the same, it can be inferred that yttrium exists in only one isotopic form, Y-89. 12. Atomic number is defined by the number of protons in the nucleus (they are the same thing). Neutrons and protons exist in the nucleus in a ratio that keeps nuclear forces in balance. Since protons have a repulsive force that is far stronger than the attractive force between neutrons, more neutrons than protons are required for balance. The key is that the number of protons increase, and by necessity or definition that means that both the atomic number and ratio of neutrons to protons increase as well. 13. Method 4 requires only that you know the percentage of each item that is present. Isotopic abundance, given in percentages, is the information you have available when calculating average atomic mass. The other methods require you to know the total number of items. 14. When an organism dies, the amount of C-14 is no longer replenished, so the net ratio of C-14 decreases compared to C-12. Because we know how quickly C-14 decays (is removed from an organism) we can calculate the age of a fossil based on how much C-14 is left in it. Section 1.2 Review Questions (Student textbook page 30) 1. Properties of elements fall into a pattern based on atomic number, not on atomic mass as Mendeleev was trying to arrange them. 5. Isotopes are atoms with the same number of protons (and are therefore atoms of the same element) but with different numbers of neutrons. 2. Because they had not yet been discovered. 6. When a nucleus is unstable, it can emit a negative particle and one of the neutrons in the nucleus becomes a proton. Since the atomic number changed, it became a different element. 3. Elements in the same period have atoms with the same number of electron shells. Elements in the same group have atoms with the same electron configuration in their valence shells. 7. Isotopic abundance is the relative amount of an isotope as compared to the total amount of all isotopes of the element. 4. Sample answer: Sodium must be highly reactive, being an alkali metal found in Group 1. Storing it in oil reduces the likelihood of a violent reaction. 8. More than one isotope of most stable elements are found on Earth. The reported value is a weighted average of the masses of the naturally occurring isotopes. 5. Sample answer: Silicon is a brittle metalloid that would break apart if pressure was used to change its shape (the method used for the copper platter). It has a very high melting point (1687 K) and could not be easily moulded into another shape. MHR TR • Chemistry 11 Answer Key Unit 1 6. Main-group elements are the most prevalent elements on Earth. The valence electron configurations of their atoms are completely predictable based on their group (except group 12). 7. The non-metal category includes elements that are gases at room temperature. 8. copper, silicon, iodine 9. 32 10. main-group elements, non-metals, and halogens 11. The name "rare earth metals" refers to the rarity in which they are found in pure form. 12. Strontium is in the same group as calcium, and is slightly more reactive. They are likely to be found in similar places (i.e., bones). 13. a. Sodium (Na) is more reactive. Sodium (Na) is a Group 1 alkali metal while magnesium (Mg) is a Group 2 alkaline earth metal. The alkali metals are the most reactive metals. b. Bromine (Br) is more reactive. Bromine is a Group 17 halogen, the most reactive group of non-metals. Krypton (Kr) is a noble gas in Group 18, which are unreactive non-metals. c. Hydrogen (H) is more reactive. Though it is in Group 1, hydrogen is a reactive non-metal, not an alkali metal. Helium (He) is a Group 18 noble gas, the most unreactive of the non-metal elements. 14. Answer may be any of the alkali metals. 15. non-metals 16. Sample answer: Benefits of Various Periodic Tables Form of Periodic Table Benefits • Used by scientists all over the world Standard • Compact and straightforward to read • Shows many levels of similar properties • Is available in interactive form online Circular Pyramidal Spiral • Emphasizes the continuous increase in atomic number • Highlights the repeating nature of properties of elements • Shows how elements relate in terms of their electron configurations • Same as the circular periodic table, and visually groups elements according to properties • Is available with detailed interactive software Cupcake • Editable Section 1.3 Review Questions (Student textbook page 40) 1. Atomic radius is the distance from the centre of an atom to the boundary within which its electrons spend 90 percent of their time. Chemists use X-ray crystallography, neutron diffraction, and electron diffraction to measure the atomic radii of different atoms. 2. O, Sb, Sn, Ba, Cs 3. Within a group, atomic radius increases from the top to the bottom of the periodic table. This is because each row lower down a group, the number of occupied electron shells increases. Even though the positive charge of the nucleus increases, the inner shells shield the outer electrons from the positive charge and the

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