

PERIODIC TABLE: SPECIAL GROUPS

Part A • Label the table using the special group names from your notes

Name: _____ Class: _____ Date: _____

Instructions: Write the correct special name beside each highlighted group. Use the word bank below. Your notes also give alternative group numbers for the halogens and noble/inert gases.

Word bank: Alkali metals • Alkaline earth metals • Halogens • Noble gases / inert gases

Group 1	Group 2	Transition metals	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8
Period 1	—	Transition metal gap	—	—	—	—	—	Period 1
Period 2	Period 2	Transition metal gap	Period 2	Period 2	Period 2	Period 2	Period 2	Period 2
Period 3	Period 3	Transition metal gap	Period 3	Period 3	Period 3	Period 3	Period 3	Period 3
Period 4	Period 4	Transition metal gap	—	—	—	—	—	—

- Group 1 is called: _____
- Group 2 is called: _____
- Group 7 (or 17) is called: _____
- Group 8 (or 18 or 0) is called: _____
- Which group is also known as the halogens? _____
- Which group is also known as the noble or inert gases? _____

PERIODIC TABLE: CHECK YOUR KNOWLEDGE

Part B • Multiple-choice questions based on your notes

Name: _____ Class: _____ Date: _____

1. The periodic table is...

- A. a random collection of elements
- B. a systematic arrangement of elements in a precise order
- C. a list arranged by colour
- D. a chart arranged by element name

2. Elements are first arranged in order of increasing...

- A. atomic mass
- B. number of shells
- C. atomic number
- D. number of groups

3. The horizontal rows of the periodic table are called...

- A. groups
- B. periods
- C. shells
- D. families

4. The vertical columns of the periodic table are called...

- A. periods
- B. shells
- C. groups
- D. rows

5. Atoms in the same period have the same number of...

- A. valence electrons
- B. protons
- C. occupied electron shells
- D. neutrons

6. An atom in Period 3 has...

- A. 1 occupied shell
- B. 2 occupied shells
- C. 3 occupied shells
- D. 7 occupied shells

7. Valence electrons are...

- A. electrons in the nucleus
- B. electrons in the outermost shell
- C. all the protons in an atom
- D. electrons in the innermost shell only

8. According to the notes, Group 2 atoms have...

- A. 1 valence electron
- B. 2 valence electrons
- C. 7 valence electrons
- D. 8 valence electrons

9. Group 1 elements are called...

- A. halogens
- B. noble gases
- C. alkali metals
- D. alkaline earth metals

10. Which group contains the halogens?

- A. Group 1
- B. Group 2
- C. Group 7 (or 17)
- D. Group 8 (or 18 or 0)

11. Which group is known as the noble or inert gases?

- A. Group 1
- B. Group 2
- C. Group 7
- D. Group 8 (or 18 or 0)

12. Atoms in the same group have the same number of...

- A. occupied electron shells
- B. valence electrons
- C. protons
- D. neutrons

Score: _____ / 12