

# CHAPTER 5 REVIEW THE PERIODIC LAW ANSWER SECTION 3

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**What are the approximate positions and blocks where metals and nonmetals are found in the periodic table?** Metals are on the left side of the periodic table, mostly in the s, d, and f blocks. Nonmetals are on the right side of the periodic table, all in the p block (except for hydrogen).

**What is the periodic law responses?** Summary. Elements of the periodic table are arranged in order of increasing atomic number. The periodic law states: "When elements are arranged in order of increasing atomic number, there is a periodic repetition of their chemical and physical properties."

**How did the discovery of noble gases change the periodic table?** The discovery of the noble gases changed Mendeleev's periodic table by adding a new group, specifically Group 18. When Sir William Ramsay discovered the noble gases between 1894 and 1898, he initially placed them between the halogens (Group 17) and the alkali metals (Group 1).

**What are the rows of the periodic table called?** Periods: It is a row of the periodic table known as periods or series. They have the same number of electron shells. They are arranged on the basis of similar chemical properties and physical properties.

**What are the positions of metals and nonmetals in the periodic table?** The periodic table can be used to find out if an element is a metal or a non-metal. Metals are found on the left and in the middle, whereas non-metals are all on the right.

**How is the periodic table arranged?** The periodic table is arranged by atomic weight and valence electrons. These variables allowed Mendeleev to place each element in a certain row (called a period) and column (called a group). The table comprises seven rows and 18 columns.

**Where are the metals located on the periodic table?** Metals are on the left of the periodic table, and non-metals are on the right.

**What is the rule of the periodic table?** The modern Periodic law can be stated as: "The physical and chemical properties of the elements are periodic functions of their atomic numbers". The atomic number is equal to the number of electrons or protons in a neutral atom.

**What is the periodic law of the periodic table?** The modern periodic law states that: The physical and chemical properties of the elements are the periodic function of their atomic numbers. It means that if the elements are arranged in order of increasing atomic numbers, the elements with similar properties recur after regular intervals. Q.

**Where are the most reactive nonmetal elements found on the periodic table?**  
Answer and Explanation: The most reactive nonmetals are the halogens (of group 17), which are located on the far right-hand side of the periodic table, just before the noble gases.

**What is the lightest element?** Hydrogen is the lightest element and exhibits the simplest atomic structure. In addition, it is the most abundant element in the universe and can form bonds to nearly every element, such as s- and p-block elements.

**Which element is likely to be the most reactive?** The most reactive element is Fluorine in the non-metals group and Caesium in the metals group.

**What does the atomic number tell you?** An element's or isotope's atomic number tells how many protons are in its atoms. An element's or isotope's mass number tells how many protons and neutrons in its atoms.

**What family name is group 18 known as?** The noble gases (historically the inert gases, sometimes referred to as aerogens) are the naturally occurring members of

group 18 of the periodic table: helium (He), neon (Ne), argon (Ar), krypton (Kr), xenon (Xe), and radon (Rn).

**What does the group number of an element tell you?** The group number of an element tells you how many electrons there are in the outer shell and the period number tells you how many electron-containing energy shells the element has.

**What is the place of metals and non-metals in periodic table?** Metals are placed on the left-hand side of the Periodic Table while non-metals are found on the right-hand side. A zig-zag line separates the metals from the non-metals.

**Which block of the periodic table contains both metals and nonmetals?** All the three different types of elements; metals, non-metals and metalloids are present all together in the p-block of the modern periodic table.

**What block are metals located on the periodic table?** The d-block elements are all metals and most have one or more chemically active d-orbital electrons.

**In which block of the periodic table are nonmetals found?** The non-metals are found in the p-block of the modern periodic table.

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### **Student Solutions Manual for Harshbarger/Reynolds' Mathematical Applications for the Management, Life, and Social Sciences, 8th Edition**

The Student Solutions Manual for Harshbarger/Reynolds' Mathematical Applications for the Management, Life, and Social Sciences, 8th Edition provides detailed, step-by-step solutions to all the odd-numbered practice exercises and problems in the textbook. This manual is a valuable resource for students who want to ensure they fully understand the material and can successfully apply it to real-world problems.

**Question: Will the Student Solutions Manual help me improve my grade?**

**Answer:** Yes, the Student Solutions Manual can help you improve your grade by providing you with the tools you need to master the material. By studying the step-by-step solutions to the practice exercises and problems, you will gain a deeper understanding of the concepts and be better prepared for exams.

**Question: How is the Student Solutions Manual organized?**

**Answer:** The Student Solutions Manual is organized by chapter, following the same structure as the textbook. Each chapter includes detailed solutions to all the odd-numbered practice exercises and problems in the corresponding chapter of the textbook.

**Question: What is the best way to use the Student Solutions Manual?**

**Answer:** The best way to use the Student Solutions Manual is to first attempt to solve the practice exercises and problems on your own. If you get stuck or need additional guidance, you can then refer to the solutions in the Student Solutions Manual. By working through the solutions, you will reinforce your understanding of the material and identify areas where you may need additional practice.

**Question: Is the Student Solutions Manual available online?**

**Answer:** Yes, the Student Solutions Manual is available both in print and online. The online version can be accessed through the publisher's website or through online bookstores.

**Simply Shibori: A Guide to the Art of Japanese Indigo Dyeing****What is Shibori?**

Shibori is a traditional Japanese dyeing technique that involves folding, binding, or stitching fabric before dyeing it. The result is intricate patterns and textures that create a stunning range of designs.

**How is Shibori Created?**

Shibori requires folding or manipulating the fabric in specific ways before dyeing it. Common techniques include pleating, twisting, and binding. The fabric is then tightly tied or stitched, creating areas that will not absorb the dye. After dyeing, the fabric is opened up to reveal the unique patterns.

**What Materials are Used for Shibori?**

The traditional fabric used for shibori is cotton, but other fabrics such as silk and linen can also be used. Indigo is the most common dye, but other natural or synthetic dyes can be used.

**What are the Different Shibori Techniques?**

There are several different shibori techniques, each creating its own unique patterns. Some popular techniques include:

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- **Kanoko Shibori:** Involves tying and dyeing small knots into the fabric.
- **Arashi Shibori:** Folding and wrapping the fabric around a pole and dyeing it.
- **Nui Shibori:** Sewing and gathering the fabric to create geometric patterns.

### How Can I Learn Shibori?

Shibori is an art form that requires practice and precision. There are books, online tutorials, and workshops available for those interested in learning the techniques. With patience and dedication, anyone can create beautiful shibori-dyed pieces.

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