

Chapter 5 The Periodic Table

Section 5.2 The Modern Periodic Table

(pages 130–138)

This section explains the organization of the modern periodic table and discusses the general properties of metals, nonmetals, and metalloids.

Reading Strategy (page 130)

Previewing Before you read, complete the table by writing two questions about the periodic table on pages 132–133. As you read, write answers to your questions. For more information on this reading strategy, see the **Reading and Study Skills** in the **Skills and Reference Handbook** at the end of your textbook.

Questions About the Periodic Table	
Question	Answer
Students might ask: What does atomic mass mean?	Atomic mass is a value that depends on the distribution of an element's isotopes in nature and the masses of those isotopes.
Why are two columns of elements placed before the main body of the table?	Two kinds of elements are placed before the table to make the table more compact.

Other possible questions: Why are there two numbering systems for the columns? Why is period 7 incomplete?

The Periodic Law (pages 131–133)

1. Is the following sentence true or false? In the modern periodic table, elements are arranged by increasing number of protons.
_____ **true** _____
2. Explain why the number of elements per period varies. _____ **The number of elements per period varies because the number of available orbitals increases from energy level to energy level.** _____
3. Properties of elements repeat in a predictable way when atomic numbers are used to arrange elements into groups. This pattern of repeating properties is called the _____ **periodic law** _____.

Atomic Mass (page 134)

4. Label the four types of information supplied for chlorine in the diagram.

a.	17
b.	Cl
c.	Chlorine
d.	35.453

- Atomic number**
- Element symbol**
- Element name**
- Atomic mass**

Periodic Table Section 5 2 Answer

R Barnett

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Periodic Table Section 5 2 Answer:

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alcohols ethanol 2 methylpropan 2 ol butan 2 ol but 2 en 1 ol ch₃ch₂ch₂ch₂oh ii ch₃ ch₃ch₂ch₂oh iii ch₃ch₃ch₂ch₂oh iv ch₃ ch₃cch₂oh ch₃ 6 aldehydes and ketones draw the structures for the following compounds ethanal butanone also known as butan 2 one but the 2 is unnecessary and is often left out 2 methylpropanal

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question 1 basic hydrocarbon nomenclature part a enter the number of carbons indicated by each of the following root names in the designated answer box part b the line formula for a branched alkane is shown below part c the line formula for another branched alkane is

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dec 16 2021 so the complete name is 5 bromo 7 chloro 6 hydroxy 2 2 5 trimethyl 7 octen 4 one 4 it is not difficult to find the

parent structure for this compound which is a cyclic alcohol so the last name is cyclopropanol the naming of the substituent with the benzene ring is

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1 carbon methane 2 carbons ethane 3 carbons propane 4 carbons butane 5 carbons pentane 6 carbons hexane 7 carbons heptane 8 carbons octane 9 carbons nonane 10 carbons decane while many of these names share a greek root with

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web step 1 bearing lubrication lubricate the wheel bearing with clean lubricant of the same type used in the axle sump or hub assembly step 2 initial adjusting nut torque tighten the adjusting nut to torque of 200 ft lbs while rotating the wheel step 3 initial back off back the adjusting nut off one full turn step 4

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