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[Answer Key Study Guide Organizing The Elements](#)

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Chapter 5 The Periodic Table

### Section 5.1 Organizing the Elements

**Pages 128-129**

This section explains how Mendeleev organized elements into a periodic table. It also discusses the predictions he made about undiscovered elements and how the discovery of those elements supported his version of the table of the table.

#### Reading Strategy **page 128**

**Identifying Main Ideas** As you read, complete the table by identifying the main idea for each topic. 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.

Topic	Main Idea
Mendeleev's proposal	Mendeleev arranged the elements into rows in order of increasing mass and columns with similar properties into the same columns.
Mendeleev's prediction	Mendeleev used the properties of existing elements to predict properties of undiscovered elements.
Evidence supporting Mendeleev's table	The close resemblance Mendeleev's prediction and the actual properties of new elements proved his table the periodic table was true.

#### The Search for Order **page 128**

1. Is the following sentence true or false? The first elements to be identified were mostly gases. True

2. As the number of known elements grew, so did the need to organize them into groups based on their properties.

3. Circle the letter of each category that the French chemist Antoine Lavoisier used to classify elements.

gases       metals

liquids       nonmetals

#### Mendeleev's Periodic Table **pages 127-129**

4. Is the following sentence true or false? Mendeleev needed to organize information about 85 elements. True

5. Mendeleev's strategy for classifying elements was included on 400 card games in Germany.

6. Circle the letter of each type of information Mendeleev knew about each element.

name       number of protons

relative mass       properties

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