Name:	Date: 6.1
History of Chemistry	
Key Question: How does studying the history of c	hemistry help you understand modern chemistry?
BEFORE YOU READ Skim Section 6.1. On the lines below,	predict what you will learn by reading this section.
SKIMMING HINTS	
 Read parts of the text quickly to ge Read the first and last sentence of p Consider how photos, diagrams, ar 	paragraphs—do not read every word.
WHILE YOU READ	
2 2 7	ific information, such as a word, fact, or idea. page to locate specific facts or answers.
	ight locate the fact. ms, or highlighted words might guide you. page, seeking specific words and phrases.
Scan the text on pages 184 to 186 • What replaced the beliefs of the a	to locate the following specific information: alchemists?
What was the purpose of ancient	chemistry?
Who thought all substances were	some combination of air, fire, earth, and water?

Name:	Date:		6	
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History of Chemistry (continued)

What	happened in the 16th century that led to the science of chemistry?
What	was the "reformed chemistry movement"?
	,
What	did early chemists do that alchemists did not?
What 1	prompted the need to name and organize elements and compounds?

2. Now read the section carefully to find an answer to the Key Question.

AFTER YOU READ

- Discuss with another student your prediction and what you found out from reading Section 6.1. How accurate were your predictions? How similar were your findings?
- Discuss the question in the Learning Tip on page 186.

Name:	Date:	(6.1)
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History of Chemistry Word Scramble

Complete each statement by unscrambling the words below. _____'s purpose was to find and purify new substances for as many uses as possible. 2. _____ were probably the first substances to be discovered. 3. The science of obtaining metals from ore and purifying them is called 4. Alchemy was a reflection of the serious religious beliefs of the _____ 5. It was a study of the natural world in an attempt to blend the natural world with the _____ world—a search for perfection. 6. The _____ was the legendary substance believed by the alchemists to change common metals to gold, cure all diseases, and prolong life indefinitely. 7. In Europe, alchemy contributed to the manufacture of amalgams of mercury and other metals) and to advances in many other chemical processes and the apparatus required for them. 8. The alchemists believed that all the substances in the world were composed of some combination of the four basic _____: fire, earth, air, and water. 9. Early chemists recognized the existence of two types of pure substances—compounds and elements. 10. Elements began to be discovered at a rapid pace. The large increase in the number of elements and the discovery of ______ in compounds required a new system of names and symbols so that chemists could describe and discuss their findings with others. 1. YCTHMEISR ___ __ __ __ _____ 2. AETLSM ___ __ __ __ ___ 4. ELDIMD ESAG ___ __ __ __ ___ 5. RUSAPLIIT ___ __ __ __ 6. S'SHHIPLOOPER ETONS ___ _ _ _ _ _ _ _ _ _ _ _ _ 8. SNMEELET ___ __ __ __ . 9. UNDOCOMPS ___ __ __ __ __ ___ 10.TIPROONROP ___ __ __ _____

Name:	Date:		6.2
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"It's So Elementary."

Compare the physical properties of metals, nonmetals, and metalloids.

Materials	Colour	Lustre	Malleability	Ductility	Tendency to form gases at room temperature
liquid bromine					
carbon				İ	
oxygen	-				
nitrogen					
sulfur crystals					
H2 filled balloon					
aluminum foil					
sheet of iron					
copper wire					
inc					
alcium					
nagnesium					
ilicon					
ermanium					

Special chemical properties of		
hydrogen:		
calcium:	•	
potassium:		