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Name	Class	Date
Chapter 1 About	Science	
Exercises		
1.1 The Basic	Science—Physics (page 1))
	ience today branches into the stud	
	sciences and the	
2. Write <i>L</i> or <i>P</i> besscience or physic	side each of the following to classi ical science.	ify it as a branch of life
zoology		astronomy
physics	·	botany
chemist		geology
biology		
3. Complete the fo	ollowing table by identifying each	type of science described.
Type of Science	Description	
	The study of the nature of thing matter, heat, sound, light, and the	
	The study of how matter is put to form molecules, and how the matter	
	The study of matter that is alive	
	ics—The Language of So of science are expressed in mathe	
5. Explain why eq	uations are often used in science.	
6. Is the following	uations are often used in science. sentence true or false? Scientific to isprove when they are expressed	
6. Is the following to verify or to d	sentence true or false? Scientific	
6. Is the following to verify or to d1.3 Scientific7. Which two scientific	sentence true or false? Scientific to isprove when they are expressed	mathematically.
 6. Is the following to verify or to d 1.3 Scientific 7. Which two scientific methods. Name five steps 	sentence true or false? Scientific to isprove when they are expressed Methods (page 2) ntists are usually credited as the p	mathematically. principal founders of the

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Chapter 1 About Science	
	true or false? Following the steps of the s an important part of the success of science.
1.4 The Scientific Att	itude (pages 2–3)
Match each term to its definition	
Term	Definition
 10. law or principle 11. fact 12. hypothesis 	a. a close agreement by competent observers who make a series of observations of the same phenomenon
	b. a hypothesis that has been tested over and over again and not contradicted
	c. an educated guess that is not fully accepted until demonstrated by experiment
13. What should happen if a s law, or principle?	scientist finds evidence that contradicts a hypothesis,
	idea of a scientist who has an excellent reputation or a nt that shows the idea is wrong?
15. In everyday speech, the w	ord <i>theory</i> means
16. In science, the word <i>theory</i>	/ means
17. Is the following statement be changed.	true or false? Once an idea becomes a theory, it cannot
1.5 Scientific Hypothe	eses (page 4)
	er for a hypothesis to be scientific?
19. To determine whether a h	ypothesis is scientific or not, you should
20. Scientists perform a(n)	to test a(n)
21. Is the following hypothesi	s scientific? Why? "Intelligent life exists on other planets

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somewhere in the universe."