Name			Class	Date	1. What property of each crown can you determine from this data? Why is this property valuable?
SECTION VOI	ume and Density	<i>y</i>	4	(pages 20–27)	
	KEY CONCEPTS —				
	latter is anything thand volume.		▲ Density is the volume of an		
■ Vocabula	nry Skills: Using D	Definitions			<ul><li>2. In the spaces provided to the right of the data, calculate the property that you named in question 1.</li><li>3. Based on your calculations, do you think that any of these crowns could be the real one?</li></ul>
Write a short related.	paragraph in which	h you explain	how the following	terms are	Why or why not?
mat	ter mass	volume	density p	roperty	
				- Mary	
			<u> </u>		4. Which of these crowns do you think are fakes? Why?
Imagine that summoned b	you are living in Engy the king of your lestolen the king's so	urope in the M	Middle Ages. You h	ave been matter.	
proclamation crown. The p	offering a reward roblem is that the lexactly like the mis	of 500 gold co king has receiv	oins for the safe re-	turn of his rowns—and	5. Can you guess what the fake crowns are made of? On what did you base your guess?
to find out w	hich crown is the re ected on one batch	eal one. The cl	hart below shows s	some data that	
questions.		01 01 01 011 201	are data, aren		
	1 1/1 / 3				
Crown #	Volume (cm <sup>3</sup> )	Mass (g)			6. How do you think the fake crowns were made to look like the real crown?
1	180	1890			
2	180	486			
3	180	1404			
4	180	3474			
5	180	2034			