Name	Class	Date	

Assessment

## **The Science of Physics**

## **Section Quiz: The Language of Physics**

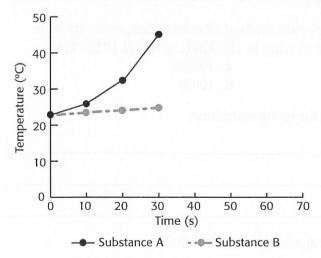
Write the letter of the correct answer in the space provided.

TABLE 1 DATA FROM HEATING EXPERIMENT

Time (s)	Substance A Temp (°C)	Substance B Temp (°C)
0.0	22.8	22.8
10.0	25.9	23.5
20.0	32.4	24.1
30.0	45.1	24.9

- \_\_\_\_\_ **1.** Based on the data from Table 1, which of the following statements is correct?
  - **a.** The temperature increased equally during each time period for both substances.
  - **b.** There is no relationship between heating time and temperature for either substance.
  - **c.** As time increased, the temperature increased for both substances.
  - **d.** none of the above

## **GRAPH 1 DATA FROM HEATING EXPERIMENT**



- **2.** What does Graph 1 show about the heating rate of substance A versus substance B?
  - **a.** Compared to substance B, substance A has a faster heating rate.
  - **b.** Compared to substance A, substance B has a slower heating rate.
  - **c.** Substance A and B heat at different rates.
  - **d.** all of the above

Name		Class	Date
The Science of	Physics continued		C TO STATE SERVICE
betwe Graph	en temperature and 1?	d time for subst	hows the average relationship ance B as given in Table 1 and $\Delta T)^2 = 0.7(\Delta t)$
	$= 0.07(\Delta t)$ $= 0.07(\Delta t)^2$		$T = 7.4(\Delta t)$
<b>a.</b> cha <b>b.</b> cha <b>c.</b> diff	does the symbol Δa inge in mass inge in meters Terence in motion tance in meters	n represent?	
<b>5.</b> What	is the standard abb	reviation for se	conds?
a. sec		C. Se	ds
<b>b.</b> s		<b>d.</b> <i>t</i>	
<b>6.</b> All of	the following are u	nit abbreviation	as except which one?
<b>a.</b> m		c. $\Delta$	
<b>b.</b> kg		<b>d.</b> s	
follow <b>a.</b> (tim <b>b.</b> tim <b>c.</b> (tim	final answer's dimering operations is cone/length) × time e × (length/time) ne × length) – length × (length/time)	orrect? gth	n length, which of the
			calculation, estimate how
		moving at 109 ki c. 10	m/h to travel 10450 km. 000 h
<b>b.</b> 100	00011	<b>d.</b> 10	000 11
9. Name at least	t two advantages fo	or using equation	ns.
<del></del>			
		Y. The The	nly (X 55 ) of (iii)
10. What are ord	er-of-magnitude ca	lculations used	to do?
			Compression en massa y victoria.
May make off	noted seed A		opas od trodosejnitki je narodnika
			har Na i marajika