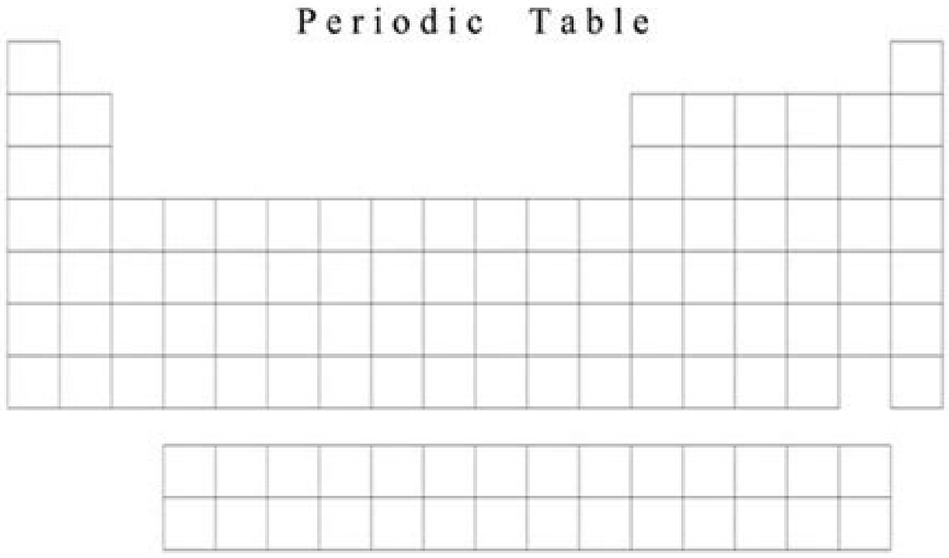
Carson- dellosa chemistry worksheet answers

Periodic Table



Name_____

Scientific Notation

Scientists very often deal with very small and very large numbers, which can lead to a lot of confusion when counting zeros. We can express these numbers as powers of 10.

Scientific notation takes the form of $M \times 10^n$ where $1 \leq M < 10$ and n represents the number of decimal places to be moved. Positive n indicates the standard form is a large number. Negative n indicates a number between zero and one.

Example 1: Convert 1,500,000 to scientific notation.

Move the decimal point so that there is only one digit to its left, for a total of 6 places.

$1{,}500{,}000 = 1.5 \times 10^6$

Example 2: Convert 0.000025 to scientific notation.

For this, move the decimal point 5 places to the right.

$0.000025 = 2.5 \times 10^{-5}$

(Note that when a number starts out less than one, the exponent is always negative.)

Convert each number to scientific notation.

1. 0.005 = _____
2. 5,050 = _____
3. 0.0008 = _____
4. 1,000 = _____
5. 1,000,000 = _____
6. 0.25 = _____
7. 0.025 = _____
8. 0.0025 = _____
9. 500 = _____
10. 5,000 = _____

Convert each number to standard notation.

11. 1.5×10^3 = _____
12. 1.5×10^{-3} = _____
13. 3.75×10^{-2} = _____
14. 3.75×10^2 = _____
15. 2.2×10^6 = _____
16. 3.35×10^{-1} = _____
17. 1.2×10^{-4} = _____
18. 1×10^4 = _____
19. 1×10^{-1} = _____
20. 4×10^0 = _____

Quarter 4 – Matter and its Interaction
MODULE 1 – BEHAVIOR OF GASES

Group no. ____
Group name: _____
Group members:
1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

Activity 3 – Charles' Law
Procedure:

1. Prepare 3 set-ups using beakers/basin.
   a. Set-up A (hot water)
   b. Set-up B (tap water)
   c. Set-up C (cold water)
2. Inflate a balloon (it must be spherical).
3. After inflating, draw a line around the widest (or middle portion) of the balloon to be consistent with where to measure the circumference.

(Note: The same balloon will be used throughout the experiment. Thus, do not overinflate the balloon.)

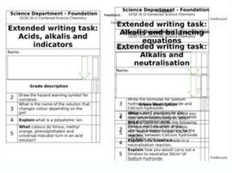
4. Predict first what will happen to the size of the balloon before submerging the balloons into the different set-ups. Write your predictions on Table 1.

Set-up	Predictions	Observations
Warm water		
Tap water		
Cold water		

5. Measure the circumference of the balloon.
6. Get the temperature of the water in the basin (Set up A).
7. Place inflated balloon in set-up A for 2-3 minutes.
8. Measure the circumference of the balloon once more.
9. Perform two more trials and get the average of the results.
10. Repeat step 5-9 using Set up B and C.
11. Record your observations on Table 2.

Set up / trials		Temp (°C)	Average Temp (°C)	Ave Temp (K)	Circumference of the balloon (cm)			Volume of the balloon after placing in a set up.	Average volume
					Before	after	diff		
Warm	1								
	2								
	3								
Tap water	1								
	2								
	3								
Cold water	1								
	2								
	3								

Q1. What happens to the size of the balloon as the temperature decreases?
Q2. How does the temperature relate to the volume of gas in the balloon?



Carson dellosa chemistry answer key.

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