

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Hour: \_\_\_\_\_

1. Fill in the following chart about SI prefixes:

Prefix	Symbol	Meaning
mega-		
kilo-		
deci-		
centi-		
milli-		
micro-		
nano-		

2. Explain why our textbook uses spaces in large numbers (such as 1 000 000.00) instead of commas.

\_\_\_\_\_

\_\_\_\_\_

3. Define mass: \_\_\_\_\_

4. Define weight: \_\_\_\_\_

5. Give four differences between mass and weight. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

6. What is the SI standard (base unit) of mass? \_\_\_\_\_

7. How is a kilogram defined? \_\_\_\_\_  
\_\_\_\_\_
8. How does a balance work? \_\_\_\_\_  
\_\_\_\_\_
9. Define length. \_\_\_\_\_
10. Name three SI units of length. \_\_\_\_\_
11. Define time. \_\_\_\_\_
12. Use Appendix A (Table A-1) to define a second: \_\_\_\_\_  
\_\_\_\_\_
13. Define temperature: \_\_\_\_\_  
\_\_\_\_\_
14. Explain how atoms are related to temperature: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
15. How does a thermometer work? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
16. How was the Celsius temperature scale set up? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
17. Using your answer to question 16, explain why Celsius is also called centigrade: \_\_\_\_\_  
\_\_\_\_\_
18. What is the standard SI (base) unit of temperature? \_\_\_\_\_