

Name: _____

Date: _____ Per: _____

Chemistry
SI Unit Conversions WS 2

I. Perform the following two-step SI unit conversions, **showing all work**:

1. $223 \mu\text{g} = \underline{\hspace{2cm}} \text{mg}$

2. $7500 \text{ km} = \underline{\hspace{2cm}} \text{Mm}$

3. $\underline{\hspace{2cm}} \text{cg} = 581 \text{ kg}$

4. $34.23 \text{ ms} = \underline{\hspace{2cm}} \mu\text{s}$

5. $9436 \mu\text{m} = \underline{\hspace{2cm}} \text{mm}$

6. $997 \text{ cg} = \underline{\hspace{2cm}} \mu\text{g}$

7. $0.0893 \text{ kg} = \underline{\hspace{2cm}} \text{mg}$

8. $648.0 \text{ cg} = \underline{\hspace{2cm}} \text{kg}$

9. $27 \text{ kg} = \underline{\hspace{2cm}} \text{mg}$

10. $\underline{\hspace{2cm}} \text{cm} = 123 \text{ mm}$

11. $43 \text{ kL} = \underline{\hspace{2cm}} \text{mL}$

12. $876 \mu\text{L} = \underline{\hspace{2cm}} \text{kL}$

II. Perform the following temperature conversions, **showing all work**:

13. $46^{\circ}\text{C} = \underline{\hspace{2cm}} \text{K}$

14. $392 \text{ K} = \underline{\hspace{2cm}} ^{\circ}\text{C}$

15. $-21^{\circ}\text{C} = \underline{\hspace{2cm}} \text{K}$

16. $129 \text{ K} = \underline{\hspace{2cm}} ^{\circ}\text{C}$

17. $-147^{\circ}\text{C} = \underline{\hspace{2cm}} \text{K}$

18. $490 \text{ K} = \underline{\hspace{2cm}} ^{\circ}\text{C}$

19. $17^{\circ}\text{C} = \underline{\hspace{2cm}} \text{K}$

20. $22 \text{ K} = \underline{\hspace{2cm}} ^{\circ}\text{C}$

21. $5400 \text{ K} = \underline{\hspace{2cm}} ^{\circ}\text{C}$

22. $-98^{\circ}\text{C} = \underline{\hspace{2cm}} \text{K}$

23. $232 \text{ K} = \underline{\hspace{2cm}} ^{\circ}\text{C}$

III. Perform the following volume conversions, **showing all work**:

24. $92.5 \text{ cm}^3 = \underline{\hspace{2cm}} \text{mL}$

25. $45 \text{ cm}^3 = \underline{\hspace{2cm}} \text{mm}^3$