

Name _____

Period _____

Science Mini-Test 2013

Procedure

1. What is the website for the class? _____
2. Where do completed assignments go? _____
3. What is the rule for food in the classroom? _____

Safety

4. What should be done if you accidentally break glassware?



5. What should you do if something catches on fire? _____

6. Why shouldn't you taste or sniff items in the lab? _____

Scientific Method

7. What needs to happen before a hypothesis is made? _____

8. What is a hypothesis? _____

9. What must you do after your hypothesis? _____

10. What does it mean to evaluate your work? _____

Metrics

11. How did scientists invent the meter? _____

12. How did scientists invent the liter? _____

13. How did scientists invent the gram? _____

14. What is metric temperature based on? _____

15-18. Fill in the following table. Get all four blanks.

_____	hecto	deka	meter	deci	_____	_____
1000	100	10	liter	_____	1/100	1/1000
			gram			

Convert the following:

19. 53 centigrams into grams _____

20. 27 kiloliters into liters _____

21. 100 millimeters into meters _____

22. 7 grams into milligrams _____

23. 87 centimeters into millimeters _____

Abbreviate the following:

24. centimeter _____

25. kilogram _____

26. Liter _____

27. Degrees Celsius _____



Which of the following is the best estimation?

28. Half of the height of Mr. Clark

- A. One kilometer
- B. One meter
- C. One centimeters
- D. One millimeter

29. The volume of small swimming pool

- A. five kiloliters
- B. Five liters
- C. Five centiliters
- D. Five milliliters

30. About how heavy is a gram? _____

Significant Figures – How many significant figures are in the following:

31. 370.004

32. 0.0023

33. 75.0000

34. 200

Rounding: Round the numbers to the one's place.

35. 24.53

36. 31.5

37. 16.5

Scientific Notation

Convert the following to scientific notation

38. 23,000,000,000

39. 0.000000478

40. 0.023

41. 6702

Change the following from scientific notation to a standard number.

42. 6.29×10^5

43. 4.1×10^{-3}

44. 5×10^{12}



Add the following:

$$45. \quad \begin{array}{r} 5 \times 10^{-12} \\ + 2 \times 10^{-12} \\ \hline \end{array}$$

$$46. \quad \begin{array}{r} 8 \times 10^5 \\ + 9 \times 10^5 \\ \hline \end{array}$$

$$47. \quad \begin{array}{r} 4 \times 10^{18} \\ + 3 \times 10^{17} \\ \hline \end{array}$$

Multiply the following:

$$48. \quad \begin{array}{r} 2 \times 10^{16} \\ \times 4 \times 10^3 \\ \hline \end{array}$$

$$49. \quad \begin{array}{r} 7 \times 10^{-6} \\ \times 5 \times 10^{10} \\ \hline \end{array}$$

$$50. \quad \begin{array}{r} 3 \times 10^{-15} \\ \times 4 \times 10^{-7} \\ \hline \end{array}$$

$$\text{Extra Credit:} \quad \begin{array}{r} 9 \times 10^{-23} \\ + 8 \times 10^{-21} \\ \hline \end{array}$$