South Pasadena • Chemistry

Name _____
Date _____ Period ___

Unit 1 • Observations, Models, & Experiments

SCIENTIFIC NOTATION & UNIT ANALYSIS

Change the following to Scientific Notation (maintain the number of significant figures):

1. 5.280 = _____
2. 2,000 = _____
3. 15 = _____
4. 6,589,000 = _____
5. 70,400,000,000 = _____
6. .00263 = _____
7. .00589 = _____
8. .006 = _____
9. .400 = _____
10. .08060 = _____
11. 2,560 = _____
12. .0009 = _____
13. 8,900,000 = _____
14. .0920 = _____
15. 6,300 = _____
16. .90 = _____
17. 250 = _____
18. .006087 = _____
19. 500,000 = _____
20. .0000000105 = _____

Make the following Metric System conversions using "unit analysis" (you may use scientific notation):

1. 100 mg _____ = _____ g
2. 20 cm _____ = _____ m
3. 50 L _____ = _____ kL
4. 22 g _____ = _____ cg
5. 825 cm _____ = _____ km
6. 2,350 kg _____ = _____ g
7. 19 mL _____ = _____ cL
8. 52 km _____ = _____ m
9. 36 m _____ = _____ cm
10. 18 cm _____ = _____ mm
11. 6 g _____ = _____ mg
12. 4,259 mg _____ = _____ g