Chemistry First Semester Review

Introduction to Chemistry

Terms to Define

- qualitative data
- guaretitative data
- independent variable
- dependent variable
- control
- constants
- scientific theory
- scientific law
- standard of measurement
- base unit.
- · derived unit
- accuracy
- precision.

Metric Conversions

convert	to	
0.0032 mg	4	3.2410th
2,390 km	70	2.34 NO
0.009 g	ng	9 810 4
0.033 Mg	48	3.3710
0.00052 s	me	0.52
3.42 µg	PE	3.42400

Temperature Conversions Convert the following:

Identify the following examples of data as qualitative (QL) or quantitative (QT).

QL 1. the solution is blue

Q 2. the metal has luster

QN 3. the mass is 105 g

QN 4. the temperature is 12 °C

QN_5. the length is 5.0 mm

6. the liquid conducts electricity

Identify the SI base unit used for each of the following:

time	2.
length	m
mass	Ka
temperature	K
amount of a substance	mol

Experimental Design

You design an experiment to determine which household cleaner best prevents the growth of bacteria. You gather five different household cleaners and some petri dishes with bacteria samples. Determine each of the following for your experiment:

dependent variable: type of cleaner control bacteria control bacteria control bacteria control bacteria constants: temp strain of bacteria, sunlight etc.

Scientific Notation

Convert the following to scientific or standard notation:

Scientific Netation

Perform the following calculations:

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Mcps Chemistry Semester Review Guide Answers

Brendan G. Carr

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