

Unit 1 – Atomic Structure

Scientific Notation and SI

1. Express the following quantities in scientific notation:

a. 0.0010 s 1.0×10^{-3} s

b. 10.000 K 1×10^4 K to 1.0000×10^4 K
* Contains an uncertain number of sig. figs.

c. 0.000 005 3 J 5.3×10^{-6} J

d. 15 000 000 g 1.5×10^7 g to $1.500 000 0 \times 10^7$ g
* Contains an uncertain number of sig figs.

e. 0.000 000 011 2 mol 1.12×10^{-8} mol

2. What SI units are used for measuring the following? Label each as a base or derived unit.

- | | |
|-------------|----------------------------------|
| a. amount | <u>mole, mol</u> – base unit |
| b. time | <u>second, s</u> – base unit |
| c. volume * | <u>litre, l</u> – derived unit |
| d. mass | <u>kilogram, kg</u> – base unit |
| e. pressure | <u>pascal, Pa</u> – derived unit |
| f. length * | <u>metre, m</u> – base unit |

* Note: American spellings liter, and meter are in common use. American use of L is also common. Strictly these are not SI since the U.S. is not adhering to SI.

Pearson Chemistry Workbook Atomic Structure Answer Key

Karen Timberlake



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