

Chemistry Finals Study Guide

Chapter 1 & 2 - Review of Basic Concepts

- **Describe the 3 states of matter.** The three states of matter are *solid*, *liquid*, and *gas*.
 - **Solid:** When atoms in a material are moving slow that they stick together and barely move, creating a hard object classified as a solid
 - **Liquid:** When atoms are moving slower than a gas state but faster than the solid state so they flow and are able to take the shape of their container. They have more energy than solid state atoms.
 - **Gas:** When atoms are moving faster than the other two states of matter (solid & liquid) that they are no longer pulled towards each other and roam freely without boundaries if not kept in a container.
- **Describe the difference between elements and compounds, mixtures.**
 - **Elements:** materials that are only made out of the same *type* of atoms and cannot be changed into simpler substances by a chemical change (ex: O_2)
 - **Compounds:** materials that are a mix of two or more element in a fixed proportion
 - **Mixtures:** a mixture of 2 or more pure substances.
 - **Heterogeneous Mixture:** can often be separated by filtration
 - **Homogenous Mixture:** can be separated by distillation, crystallization, and chromatography
- **Convert between Celsius and Kelvin.**
 - **Celsius to Kelvin:** $C = (^{\circ}K - 273.15)$
 - **Kelvin to Celsius:** $K = (^{\circ}C + 273.15)$
- **Round measured and calculated values to the correct number of significant digits.**
 - Significant Digit Rules: [\[CHEM\] Final 1 - Steps & Processes](#)
- **Use dimensional analysis to solve multi step equations, showing how units cancel**
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- **What is the difference between precision and accuracy?**
 - **Precision:** Acquiring the same result again and again
 - **Accuracy:** A result that is close to the accepted value/actual answer

Chemistry Final Study Guide And Answers

Arshad Iqbal



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adaptive behaviour artificial life became a recognized discipline in the 1980s in part through the impetus of american computer scientist christopher langton who named

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