

CHAPTER OVERVIEW

Chapter 6: Quantities in Chemical Reactions

So far, we have talked about chemical reactions in terms of individual atoms and molecules. Although this works, most of the reactions occurring around us involve much larger amounts of chemicals. Even a tiny sample of a substance will contain millions, billions, or a hundred billion billions of atoms and molecules. How do we compare amounts of substances to each other in chemical terms when it is so difficult to count to a hundred billion billion? Actually, there are ways to do this, which we will explore in this chapter. In doing so, we will increase our understanding of stoichiometry, which is the study of the numerical relationships between the reactants and the products in a balanced chemical reaction.

[6.1: Prelude to Quantities in Chemical Reactions](#)

[6.2: The Mole](#)

[6.3: Atomic and Molar Masses](#)

[6.4: Mole-Mass Conversions](#)

[6.5: Mole-Mole Relationships in Chemical Reactions](#)

[6.6: Mole-Mass and Mass-Mass Problems](#)

[6.E: Quantities in Chemical Reactions \(Exercise\)](#)

[6.S: Quantities in Chemical Reactions \(Summary\)](#)

[Template:HideTOC](#)

This page titled [Chapter 6: Quantities in Chemical Reactions](#) is shared under a [CC BY-NC-SA 4.0](#) license and was authored, remixed, and/or curated by [Eden Francis](#) via [source content](#) that was edited to the style and standards of the LibreTexts platform.