

Writing and Balancing Chemical Equations

Part A: Reduction-oxidation (redox) reactions are a type of chemical reaction that can be separated into two half-equations, one of which is oxidation and the other is reduction. Each half-equation shows electrons (e^-) being transferred, and is balanced based on mass and charge.

Aluminium is commonly extracted from its oxide, bauxite (Al_2O_3), in a blast furnace. We can follow the process by completing the half-equations below.



Reduction: Aluminium ion (Al^{3+}) gets converted to molten aluminium (Al).

Use the equations tool to write the balanced reduction half-equation.

equation

Oxidation: Oxide ion (O^{2-}) gets converted to oxygen gas (O_2).

Use the equations tool to write the balanced oxidation half-equation.

equation

Click this, then click 'edit' on the toolbar.

Add the two half-equations to obtain the total ionic equation.

equation

TIP: When balancing half-equations, balance both mass (number of atoms) and charge. To balance mass, place coefficients before the substances involved. To balance charges, make sure that the correct number of electrons is placed on the correct side of the equation.

Writing Balanced Chemical Equations 1 Chemistry Answers

CH Cherryholmes



Writing Balanced Chemical Equations 1 Chemistry Answers:

Whispering the Techniques of Language: An Psychological Journey through **Writing Balanced Chemical Equations 1 Chemistry Answers**

In a digitally-driven earth where monitors reign supreme and quick transmission drowns out the subtleties of language, the profound techniques and psychological subtleties hidden within words often get unheard. Yet, nestled within the pages of **Writing Balanced Chemical Equations 1 Chemistry Answers** a charming fictional value sporting with organic feelings, lies an exceptional quest waiting to be undertaken. Penned by a skilled wordsmith, that marvelous opus invites viewers on an introspective trip, lightly unraveling the veiled truths and profound influence resonating within the very fabric of every word. Within the emotional depths of this emotional evaluation, we will embark upon a honest exploration of the book is primary subjects, dissect their fascinating publishing type, and yield to the strong resonance it evokes deep within the recesses of readers hearts.

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