BALANCING REDOX REACTIONS

Oxidation Reduction

$$Zn(s) + 2 H^{+}(aq) \longrightarrow Zn^{2+}(aq) + H_{2}(g)$$

- · During oxidation, exidation number increases.
- During reduction, exidation number decreases.

The reduced reactant is the oxidizing agent.

 H° gains electrons and changes to hydrogen gas by taking electrons from it. (its o.n. decreases from +1 to 0)

The oxidized reactant is the reducing agent.

 Zn loses electrons and changes to zinc ions. (its o.n. increases from (0 to +2)



High School Chemistry Lesson Slides

Redox Reactions High School Chemistry Activity

Mary Millhollon, Richard H. Langley

Redox Reactions High School Chemistry Activity:

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Hugerat,2021-11-05 Research into the educational effectiveness of chemistry practical work has shown that the laboratory offers a unique mode of instruction assessment and evaluation Laboratory work is an integral and important part of the learning process used to encourage the development of high order thinking and learning alongside high order learning and thinking skills such as argumentation and metacognition Authored by renowned experts in the field of chemistry education this book provides a holistic approach to cover all issues related to learning and teaching in the chemistry laboratory With sections focused on developing the skill sets of teachers as well as approaches to supporting students in the laboratory the book offers a comprehensive look at vicarious instruction methods teacher and students roles and the blend with ICT simulations and other effective approaches to practical work The book concludes with a focus on retrospective issues followed up with a look to the future of laboratory learning A product of nearly fifty years of research this book will be useful for chemistry teachers curriculum developers researchers in chemistry education and professional development providers

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Education in the 21st Century Tang Wee Teo,Aik-Ling Tan,Yann Shiou Ong,2020-06-29 This book reflects on science education in the first 20 years of the 21st century in order to promote academic dialogue on science education from various standpoints and highlights emergent new issues such as education in science education research It also defines new research agendas that should be moved forward and inform new trajectories through the rest of the century Featuring 21 thematically grouped chapters it includes award winning papers and other significant papers that address the theme of the 2018 International Science Education Conference

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