

Name \_\_\_\_\_

## How Do Redox (oxidation-reduction) Reactions Work?

### Open-Ended Response Questions

1. Imagine you are a scientist working on improving battery technology. Explain how a deeper understanding of redox reactions can help you develop more efficient and longer-lasting batteries.
2. Explore the connection between redox reactions and the processes of respiration and photosynthesis in living organisms. How do these reactions sustain life?
3. Investigate the role of redox reactions in environmental remediation. Provide an example of a contaminated site and explain how redox reactions can be applied to clean it up.
4. Reflect on the significance of redox reactions in the grand scheme of chemistry. How do these reactions shape our understanding of matter and energy transfer?

