



Oxford City Schools

Proficiency Scale

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GRADE LEVEL: 10/11 COURSE NAME: IB Chemistry
MEASUREMENT TOPIC: Explain Electron Transfer & Sharing Reactions

4

In addition to Score 3, the student makes in-depth inferences and applications.

- Investigate electrochemical cells to determine spontaneity.
- Explain the experimental set-up for distillation and reflux of primary alcohols.

3

The student will:

- **Explain the direction of electron flow that converts electrical energy to chemical energy in**
 - a voltaic cell
 - a electrolytic cell
- **Explain how functional groups in organic compounds may undergo oxidation and reduction.**

2

The student will:

- Predict the products of the reactions of hydrogen with alkenes and alkynes.
- Understand rechargeable cells that involve redox reactions.
- Use redox half-reactions & equations in acidic or neutral solutions.
- Understand oxidized & reduced species & the agents.

1

With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes.

Key Vocabulary: