



Oxford City Schools

Proficiency Scale

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GRADE LEVEL: 10th - 12 Grade

COURSE NAME: AP Biology

MEASUREMENT TOPIC: Apply Concepts in Cell Communication and Cell Cycle

4

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

- Connect biological concepts, processes, and observational data to broader theories or biological themes.

3

- **Predict the causes or effects of a change in, or disruption to a biological system, related to Cell Communication and Cell Cycle, based on biological concepts or processes, models of biological concepts or processes, or data.**

- **Apply biological concepts and processes in Cell Communication and Cell Cycle to illustrative examples and novel scenarios.**

2

- **Explain biological processes related to Cell Communication and Cell Cycle.**

- **Describe biological concepts related to Cell Communication and Cell Cycle.**

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: direct and distance cell communication, ligand, signal reception, transduction, cellular response, conformational shape change, secondary messengers, phosphorylation cascades, amplification, feedback loops, cyclins, kinases, cancer