



Oxford City Schools

Proficiency Scale

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GRADE LEVEL: 9 COURSE NAME: Biology
MEASUREMENT TOPIC: Analyze Replications of Cells

4	In addition to Score 3, the student makes in-depth inferences and applications. <ul style="list-style-type: none">• Explain the effect of the presence or absence of a given molecule on the reproduction rate of cells
3	The student can: <ul style="list-style-type: none">• Using observations of cell growth, construct an explanation of how the cell cycle leads to differentiation in tissue development.• Develop and use models to explain how events during the cell cycle lead to the formation of new cells and repair of multicellular organisms, including growth, DNA replication, separation of chromosomes, and separation of cell contents.
2	The student can: <ul style="list-style-type: none">• Construct an explanation of the process of DNA replication during cellular division (S phase).• Use a model to describe the structure and sequence of DNA including nucleotide structure, base pairing and the structure of the helix.
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: