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Mathematical and theoretical biology is a branch of biology which employs theoretical analysis, mathematical models and abstractions of the living organisms to investigate the principles that govern the structure, development and behavior of the systems, as opposed to experimental biology which deals with the conduction of experiments to prove and validate the scientific theories.

Mathematical and theoretical biology - Wikipedia
viii Preface to the Third Edition possible to relate the mathematical models to speciï¬•c experiments or even biological entities. Nevertheless such an approach has spawned numerous experiments based as

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Math 490 PDE and Math Biology - College of William & Mary
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Lindenmayer Systems, Fractals, and Plants originated as notes for the SIGRAPH 1988 course Fractals:

Introduction, basics, and applications. They were published, with minor editorial changes, as a book by Springer-Verlag, New York, in 1989, and reprinted in 1992.

Algorithmic Botany: Publications

science investigates cause-and-effect relationships by seeking the mechanisms that underlie them. The next conceptâ€”scale, proportion, and quantityâ€”concerns the sizes of things and the mathematical relationships among disparate elements.

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