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Chaos occurs when a system is very

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sensitive to initial conditions. Initial conditions are the values of measurements at a given starting time. The phenomenon of chaotic motion was considered a mathematical oddity at the time of its discovery, but now physicists know that it is very widespread and may even be the

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What is The Connection Between
Chaos Theory and Fractals?

While most traditional science deals
with supposedly predictable
phenomena like gravity, electricity, or

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chemical reactions, Chaos Theory deals with nonlinear things that are effectively impossible to predict or control, like turbulence, weather, the stock market, our brain states, and so on. These phenomena are often described by fractal mathematics, which captures the infinite complexity

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Chaos theory is a branch of
mathematics focusing on the study of
chaos—states of dynamical systems
whose apparently random states of

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disorder and irregularities are often governed by deterministic laws that are highly sensitive to initial conditions. Chaos theory is an interdisciplinary theory stating that, within the apparent randomness of chaotic complex systems, there are underlying patterns, interconnectedness, constant

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similarity, fractals, and ...

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Chaos theory - Wikipedia

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to chaos, fractals, and dynamical
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originally began as an after school club at Ithaca High School in New York and has been converted into this website.

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Fractal, in mathematics, any of a class of complex geometric shapes that commonly have “fractional dimension,” a concept first introduced by the mathematician Felix Hausdorff in 1918. Fractals are distinct from the simple figures of classical, or Euclidean, geometry—the square, the

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circle, the sphere, and so forth. They are capable of describing many irregularly shaped objects or ...

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