



the Tao, the Way, the great River of Life that goes on forever.

The great alchemical insight, *as above, so below* is illustrative of the idea that we live in a holographic Universe. The patterns we see on a macro scale also exist on a micro scale. One of the most common of these is the spiral pattern that exists throughout nature, from snail shells and ferns to hurricanes and galaxies. The same kind of spiral pattern is one of those generated by the mathematics of chaos Theory known as Fractal Geometry.

The image to the left shows the fundamental equation that was used to generate the world's most famous fractal—the Mandelbrot Set, named after Benoit Mandelbrot. The Mandelbrot Set can be shown graphically, displaying the results of doing the calculations shown in the equation again and again, millions and millions of times, and on into infinity. In the picture of the equation, the arrows indicate that the results of doing the calculation are to be fed back into the other side of the equation

$$Z = Z^2 + C$$

The Mandelbrot Fractal Equation