# The Golden Ratio and How it Pertains to Art

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The Golden Ratio is one of the great mysteries of nature. The human form is part of nature, thus the Golden Ratio is in fact part of the most human bodies. One person might seem more proportional than another depending on how many times the Golden Ratio appear in his/her body measurements.

Our purpose for this presentation is to examine the Golden Ratio and how it pertains to art. We will first define what we call the Golden Ratio ($\Phi$). Next we will inspect a manifestation of $\Phi$ in the Fibonacci Number Sequence. Then we will investigate the works of Leonardo DaVinci and show some examples of how $\Phi$ relates to artistic flow and beauty. Finally, we have conducted our own study on an independent model. We will see if our model fits in the mold of the Golden Ratio.

This is just the first study conducted by what we call the (Science, Math, and Art) SMART Association. In the future we plan to investigate other mathematical factors in art such as the tessellation, cubism, and fractals. We also have plans to open the SMART Association home-page on the World Wide Web, where users can research art and mathematics through the use of interactive scripts.