
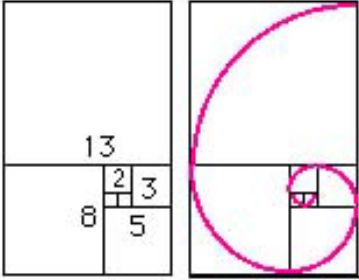


Rubric for Assessment of Fibonacci WebQuest
Elizabeth Ross Hubbell
IT 5650 Designs for Online Learning

| | Beginning | Developing | Proficient |
|--|---|---|---|
| Student journal entries | Student journal entries give no evidence of understanding of the life of Fibonacci and how he began to notice the pattern of the Fibonacci sequence. Student drawings do not show understanding of where to find the Fibonacci sequence and the golden ratio in nature. | Student journal entries give some evidence of understanding of the life of Fibonacci and how he began to notice the pattern of the Fibonacci sequence. Student drawings show some understanding of where to find the Fibonacci sequence and the golden ratio in nature. | Student journal entries give evidence of understanding of the life of Fibonacci and how he began to notice the pattern of the Fibonacci sequence. Student drawings show understanding of where to find the Fibonacci sequence and the golden ratio in nature. |
| Pinecone  (Courtesy of Susan Goldstine , Ohio State University) | Student's pinecone does not show five spirals and numbering of the petals does not reveal a pattern. | Student's pinecone gives some indication of five spirals and numbering of the petals shows a pattern within each color. | Student's pinecone clearly shows five spirals and numbering of the petals shows a pattern of counting by five within each color. |
| Art foam golden rectangle  (Photo courtesy of http://www.arches.uga.edu/~iluvkids/Goldenspiral.html) | Student's golden rectangle pieces do not have appropriate measurements of 1, 1, 2, 3, 5, 8, and 13 square inches. Pieces do not fit together appropriately so that a string lying on the outside corners show the Golden Spiral. | Most of the student's golden rectangle pieces have appropriate measurements of 1, 1, 2, 3, 5, 8, and 13 square inches. Pieces fit together well enough so that a string lying on the outside corners resembles the Golden Spiral. | Student's golden rectangle pieces have appropriate measurements of 1, 1, 2, 3, 5, 8, and 13 square inches. Pieces fit together appropriately so that a string lying on the outside corners show the Golden Spiral. |
| Article for History Magazine | Article does not give an account of the fictional adventure. The reader cannot discern that the writer has any understanding of the Fibonacci Sequence, the | Article gives an account of the fictional adventure and gives evidence that the writer has a decent understanding of the Fibonacci Sequence, the | Article gives a compelling account of the fictional adventure and is evidence that the writer understands the concepts of the Fibonacci Sequence, the |

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| | Golden Rectangle, or the Golden Spiral. The article is four paragraphs or less and has many spelling, grammatical, and punctuation errors. | Golden Rectangle, and the Golden Spiral. The article is between five and nine paragraphs long. There are few spelling, grammatical, or punctuation errors. There are few pictures. Some work is cited. | Golden Rectangle, and the Golden Spiral. The article is at least ten paragraphs long with correct spelling, grammar, and punctuation throughout. The author includes pictures where necessary and all work is cited. |
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