

Terri Husted
(Sabbatic work in progress)

**Lesson on Fibonacci
Note to Teachers**

Grade Level - Enriched 6, 7th grade and 8th grade (may use in 9th)

Approximate time - 80 + minutes, including time spent discussing results and answers.

Skills practiced - reading for information and meaning, following directions, patterns, and number theory.

NYS Standards covered - Number and numeration, Operations, Measurement (in the classroom), Patterns and Functions, Modeling and Multiple Representation (Pentagon problem) and Mathematical Reasoning.

Note: This is a lesson that must include hands-on demonstrations in the classroom so that students can discover Fibonacci numbers in pine cones, pineapples, petals of flowers, etc. It's a great lesson to do with the art teacher. It is also a lesson that should precede the discussion of the Golden Mean in high school when students solve quadratic equations.

Make sure you decide which grade is most appropriate for this lesson at your school so other teachers in your school don't accidentally use the exact same lesson. The lesson could be broken into two parts and even extended and then shared by two teachers of different grades.