

The Fibonacci Sequence: Where is it in Nature?

In this experiment you will find examples of the Fibonacci Sequence in nature.

MATERIALS NEEDED:

- *Samples of items in nature (eg, leaves, fruit, trees, insects, flowers, etc)
- *Notebook for recording and analyzing results

EXPERIMENT PROCESS:

- *Create a list of Fibonacci numbers.
- *Start by performing these simple introductory experiments evaluating Fibonacci numbers in nature.
- *Use the flower for your first examination.
- *Count the number of petals on the flower. Does the number of petals equal a Fibonacci number?
As an example: Black-Eyed Susans, have 21 petals.
- *Cut a piece of fruit in half so that you create a cross-section.
- *Count the number of sections or the number of seeds in the fruit.
Do you discover any more Fibonacci numbers?
- *Start your own investigation using other items in nature.

Where do you find examples of the Fibonacci sequence?

What parts of nature are not comprised of Fibonacci numbers?

