**Beauty in Math Project**                    **Name** _____

In our busy daily lives, it is easy to lose sight of the simple beauty around us.  The purpose of this assignment is to take (make) some time to explore and analyze some of the beauty in mathematics.  Galileo said "Mathematics is the alphabet with which God used to write the universe."  Can you give an example of what he meant?  Alternatively, is there a puzzle or pattern that fascinates you and you would like to share with the class?  The goal is to attract people to mathematics so keep the project simple and highly visual.  Below are a few topics to consider, but of course, you may have another one in mind.  If that is the case, please check with me first before you start.

Fractals:  examples Sierpinski Triangle or Koch Snowflake

Pascal's Triangle – Relationship to Binomial Theorem

Four Colour Theorem                    Stonehenge

The Golden Ratio                    pi                    Infinity

Fibonacci numbers                    e^i pi                    Japanese Magic

Circle

Escher's art                    Jain Numbers                    Vedic Math

Wheel Paradox of Aristotle                    Mathematical Scandals

Please check with the Gladstone Learning Commons website for possible websites.

http://math.rice.edu/~lanius/fractals/WHY/index.html

http://www.mathwire.com

http://nrich.maths.org

Check the databases (Username = 39gl; Password = library)

This project consists of 2 parts:

1.  Creation of a Glogster, poster or some sort of visual representation that illustrates your topic.

2.  Written description: 1 page (maximum) that explains why you chose this topic.  Please include historical significance, people involved or any relevance to our daily lives. Bonus marks for originality.

**Marking:**

| | | |
|---|---|---|
| Visual Design | /20 | |
| Explanation | /10 | |
| Relevance | /10 | |
| Works Cited | /4 | (minimum of 3 sources – 1 print, 1 database, 1 website) |
| Visuals cited | /1 | (first word of citation under each image) |
| **Total** | /45 | |