

**THE UNREASONABLE
EFFECTIVENESS OF FIBONACCI
NUMBERS IN ASTROLOGY AND
THE NATURAL SCIENCES**

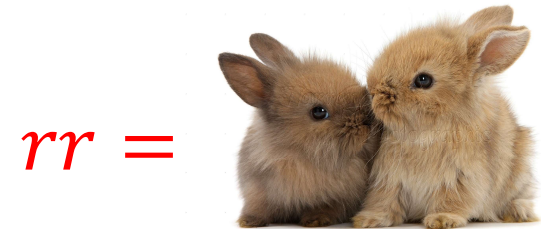
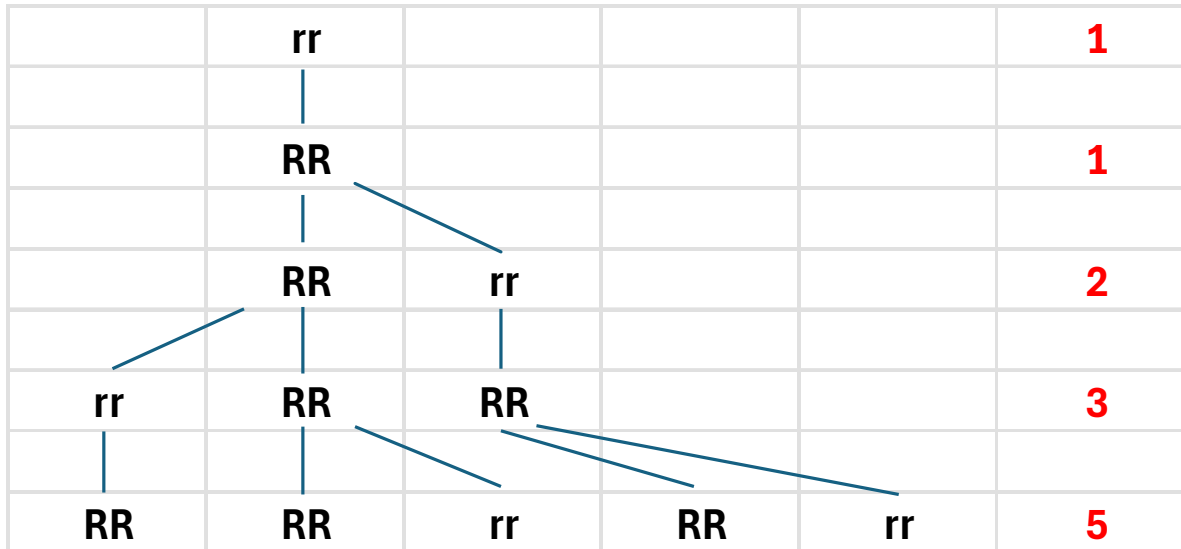
This presentation explores patterns in the Fibonacci sequence that reflect patterns found in astrology, and the presence of such patterns suggests that astrology is not a random collection of nonsense. Instead, since Fibonacci patterns are found throughout nature, the results presented here suggest that astrology, too, is a part of nature.

A few of the observations I'll make are discoveries of my own, but most were discovered by others and are presented here with occasional modifications from me. Also, some of the people who have been working in this field are Russell Olhausen, Rafael Gil Brand, Santino Mancuso (aka David Cochrane), Linda Berry, and me (Christopher Benton). It's a small group, but this is research that can change the world!



In 1170 CE, a man named Leonardo was born in Italy in the republic of Pisa. He grew up to become one of the greatest mathematicians of the Middle Ages, and today he is known simply as Fibonacci (the son of Bonacci). He introduced algebra and Arabic numerals to Europeans, and he is very famous for the following problem that gives rise to what today we call the Fibonacci sequence:

A man put a male-female pair of newly born rabbits in a field. Rabbits take a month to mature before mating. One month after mating, females give birth to one male-female pair and then mate again. No rabbits die. How many rabbit pairs are there after one year?



We represent baby rabbits by “rr” and adult rabbits by “RR,” and assuming that it takes a month for each boy/girl pair of baby rabbits to mature and start reproducing at the rate of one boy/girl pair each month, the solution to the question of how many pairs of rabbits there are after n months is given by the Fibonacci sequence where all terms beyond the 2nd are the sum of the previous two terms.

1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, 233, 377, ...

These days many people begin the Fibonacci sequence with “0” instead of “1,” and we will do that, too, once we begin looking at *Pisano periods*. Thus, in most of our examples the Fibonacci sequence will begin with 0, but in the first example it will begin with 1. However, in both cases once we get beyond the 2nd term, the $n+1$ term is always the sum of the previous two. We express this by writing $a_{n-1} + a_n = a_{n+1}$.

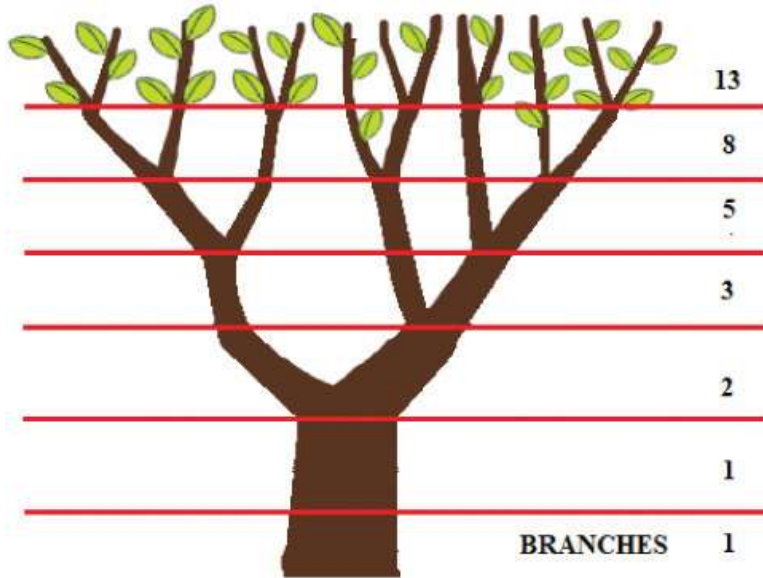
0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, 233, 377, ...

If we begin our sequence with 1 and look at the sequence of ratios of consecutive terms, then these ratios get closer and closer to an irrational number known as the *golden ratio*. This number, which is approximately 1.618034, has long been considered the most pleasing ratio to look at. Consequently, its use is found in both architecture and art, and examples of both the Fibonacci sequence and the golden ratio are also found throughout nature.

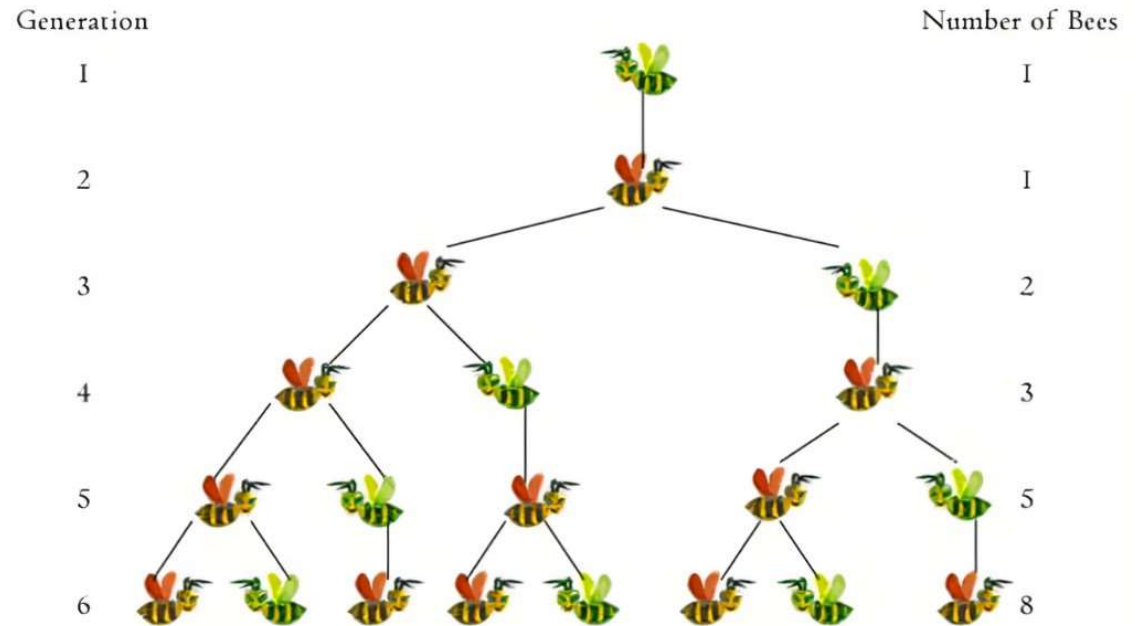
1/1, 2/1, 3/2, 5/3, 8/5, 13/8, 21/13, 34/21, 55/34, 89/55, ...

$$\frac{1 + \sqrt{5}}{2} \approx \mathbf{1.618034}$$

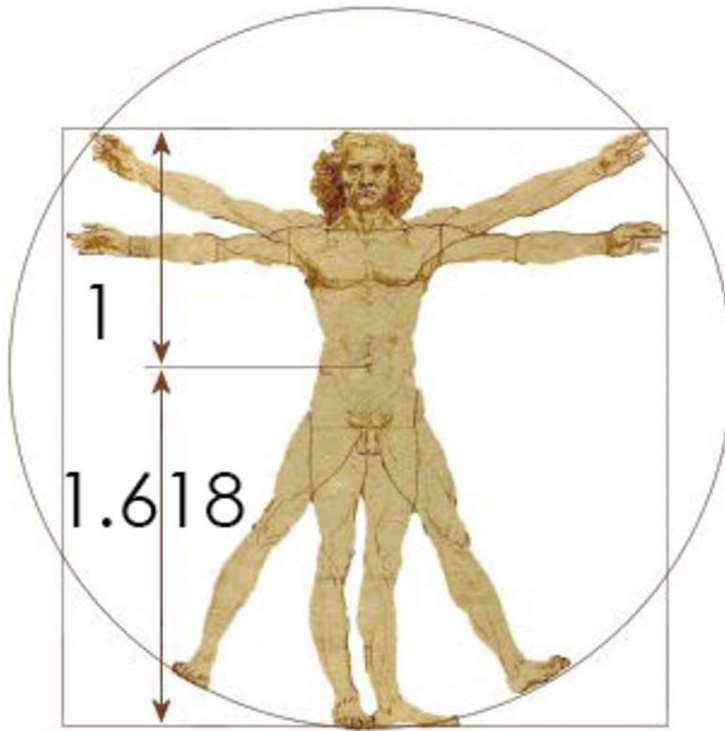
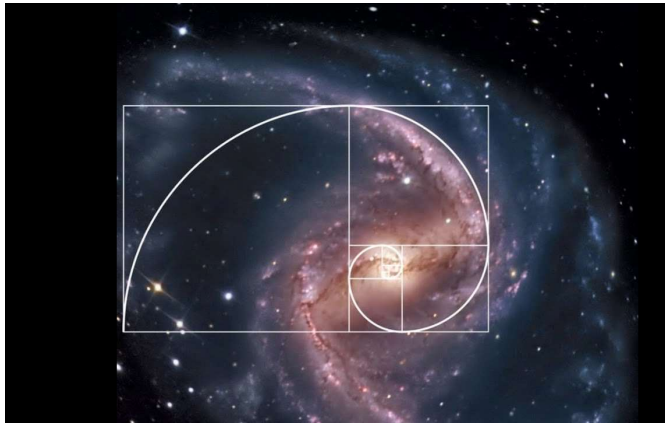
THE FIBONACCI SEQUENCE IN NATURE



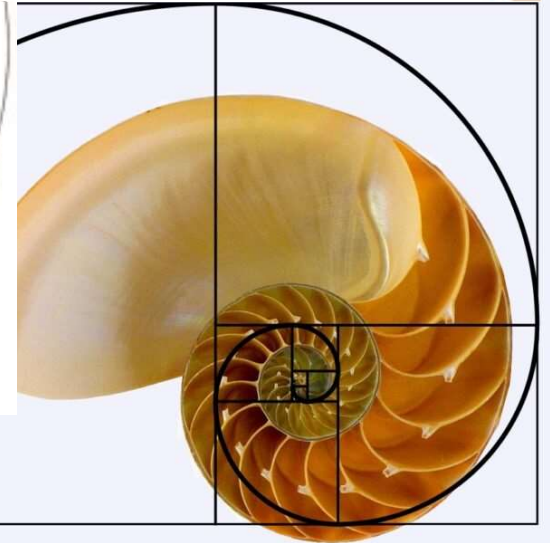
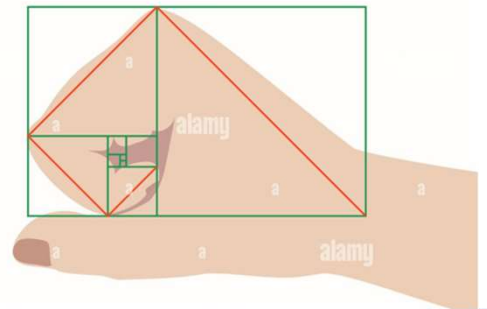
(Male =  ; Female = )



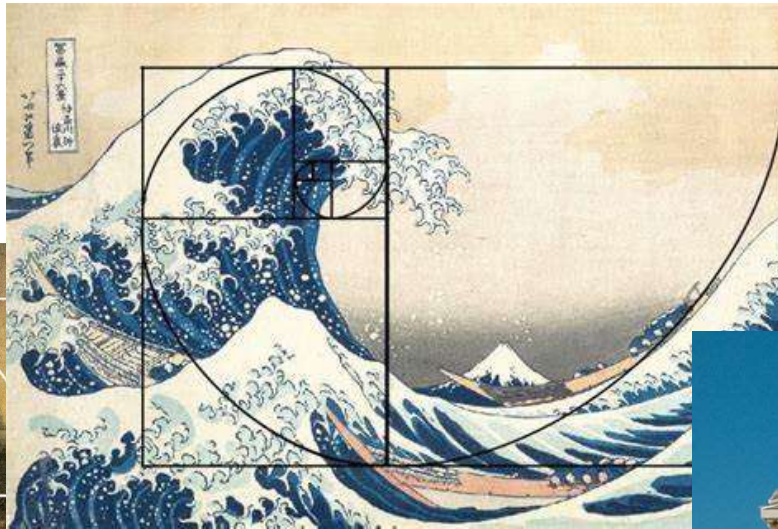
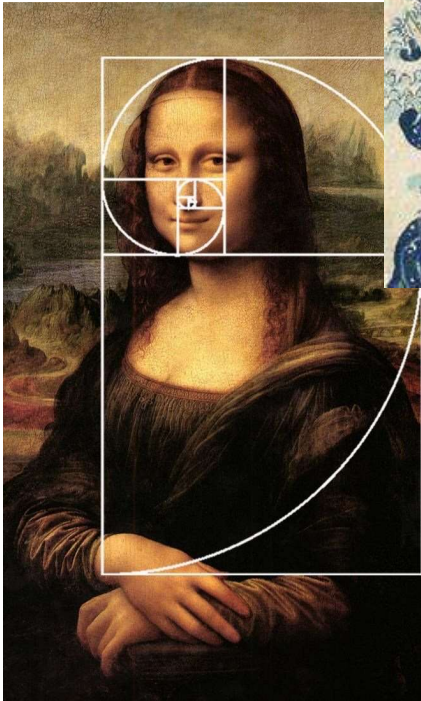
THE GOLDEN RATIO IN NATURE



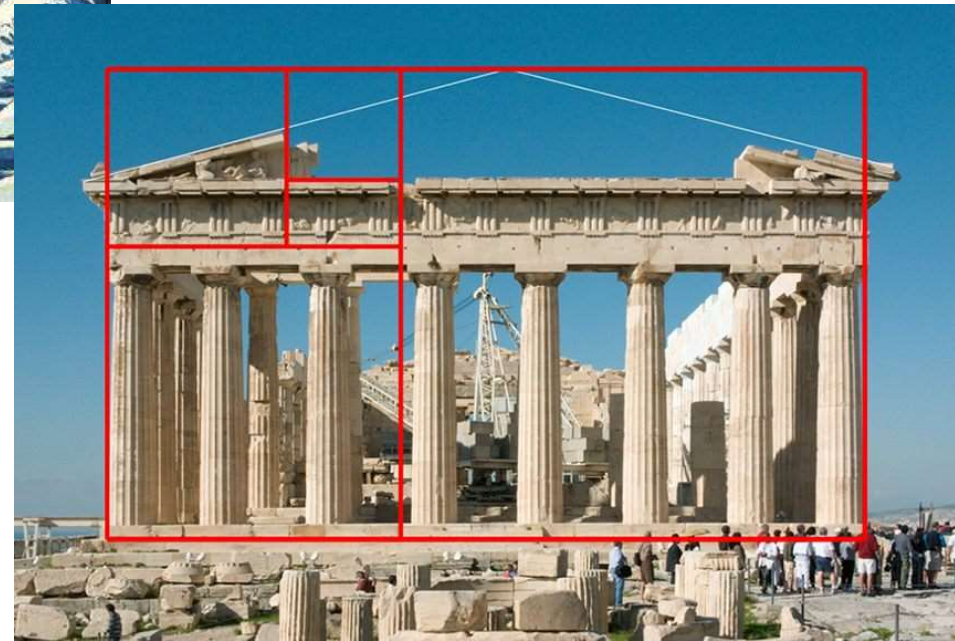
Fibonacci Golden Ratio



THE GOLDEN RATIO IN ART



NOTE: Not all mathematicians support every claim of the Fibonacci sequence occurring in nature or art. Nonetheless, this sequence is so important that there has long been a journal (The Fibonacci Quarterly) devoted to new discoveries.



Two things need to be explained before we can begin looking at the links between the Fibonacci sequence and astrology. The first is modular arithmetic and the second is what a *Pisano period* is.

Modular arithmetic is what many people know as “clock arithmetic.” It is a form of arithmetic that can turn an infinite sequence into a repeating cycle, and it does this by starting over once a certain threshold is achieved. More specifically, if we want to find the value of some number *modulo* n , then we simply find the remainder after dividing our number by n .

Thus, $17 \text{ modulo } 10 = 7$, $17 \text{ modulo } 9 = 8$, and $17 \text{ modulo } 5 = 2$. The numbers 7, 8, and 2 are the respective remainders when we divide 17 in turn by 10, 9, and 5.

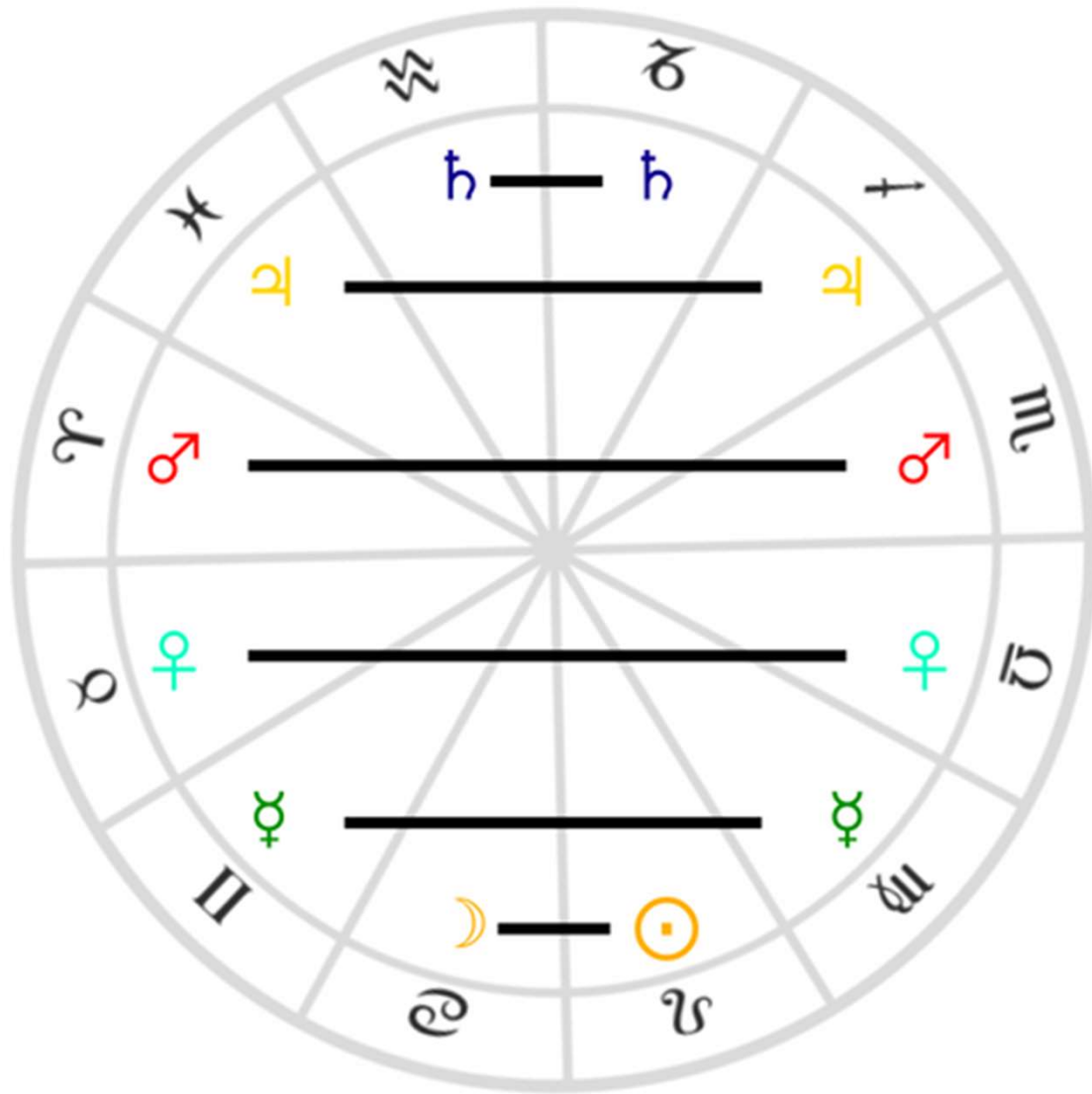
If you begin with the Fibonacci sequence and if for some natural number n you find the value of each number *modulo* n , then it can be shown that this procedure will always produce a finite sequence of values that repeats indefinitely. The length of this sequence is called the *Pisano period* of n , and we will be particularly interested in the *Pisano periods* and sequences for the values 5, 9, 10, and 81. Furthermore, for convenience I'll use the term *Pisano period* to refer not only to the length of the finite sequence produced but also to the elements of that sequence in the order that they occur. Thus, *Pisano 2* will be used by us to refer to both the length (3) of the sequence (0, 1, 1) and to the sequence itself.

$\pi(n)$	+1	+2	+3	+4	+5	+6	+7	+8	+9	+10	+11	+12
0+	1	3	8	6	20	24	16	12	24	60	10	24
12+	28	48	40	24	36	24	18	60	16	30	48	24
24+	100	84	72	48	14	120	30	48	40	36	80	24
36+	76	18	56	60	40	48	88	30	120	48	32	24
48+	112	300	72	84	108	72	20	48	72	42	58	120
60+	60	30	48	96	140	120	136	36	48	240	70	24
72+	148	228	200	18	80	168	78	120	216	120	168	48
84+	180	264	56	60	44	120	112	48	120	96	180	48
96+	196	336	120	300	50	72	208	84	80	108	72	72
108+	108	60	152	48	76	72	240	42	168	174	144	120
120+	110	60	40	30	500	48	256	192	88	420	130	120
132+	144	408	360	36	276	48	46	240	32	210	140	24

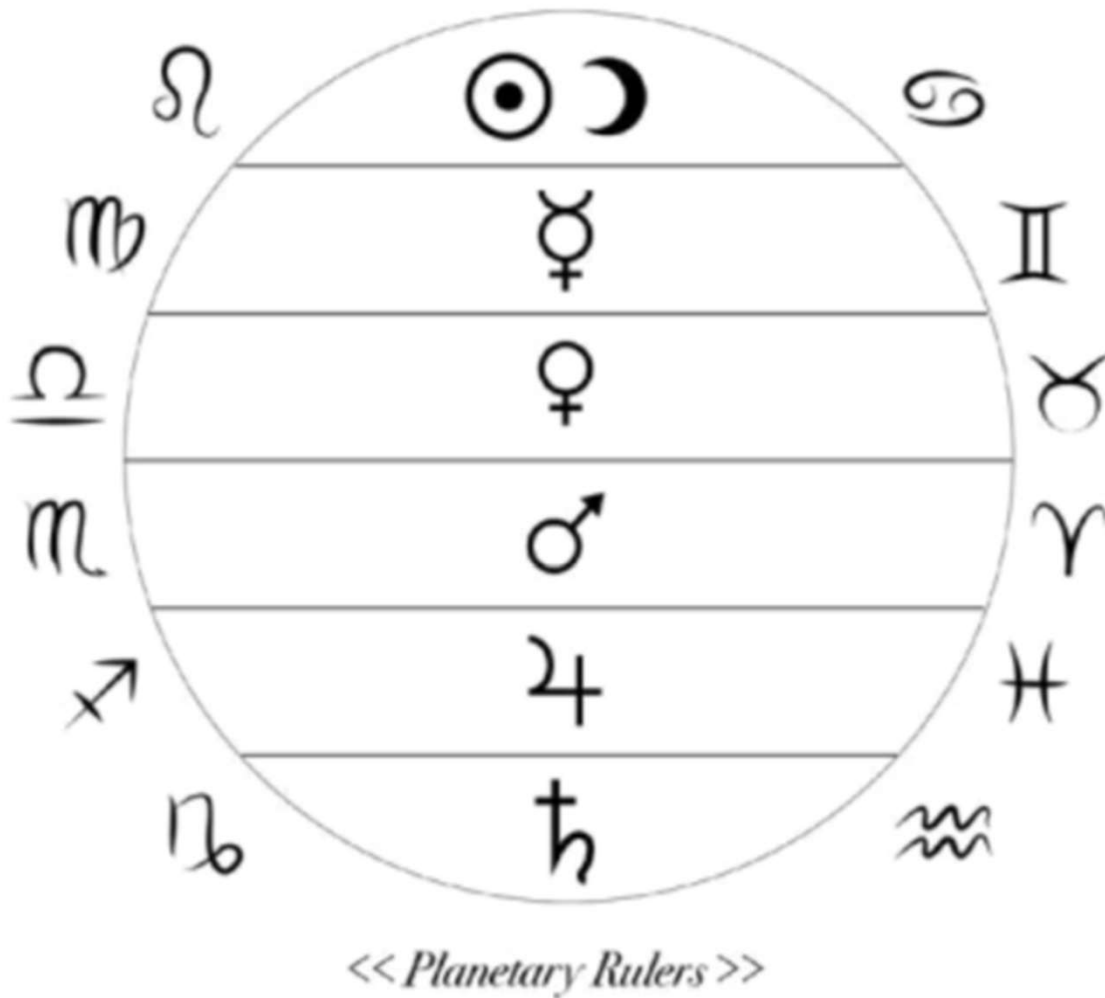
And for reference, on the left is a table for the *Pisano periods* for the numbers from 1 to 144. From this table we can see that the *Pisano period* for 5 is **20**, **24** for 9, **60** for 10, and **216** for 81.

THE PLANET LADDER

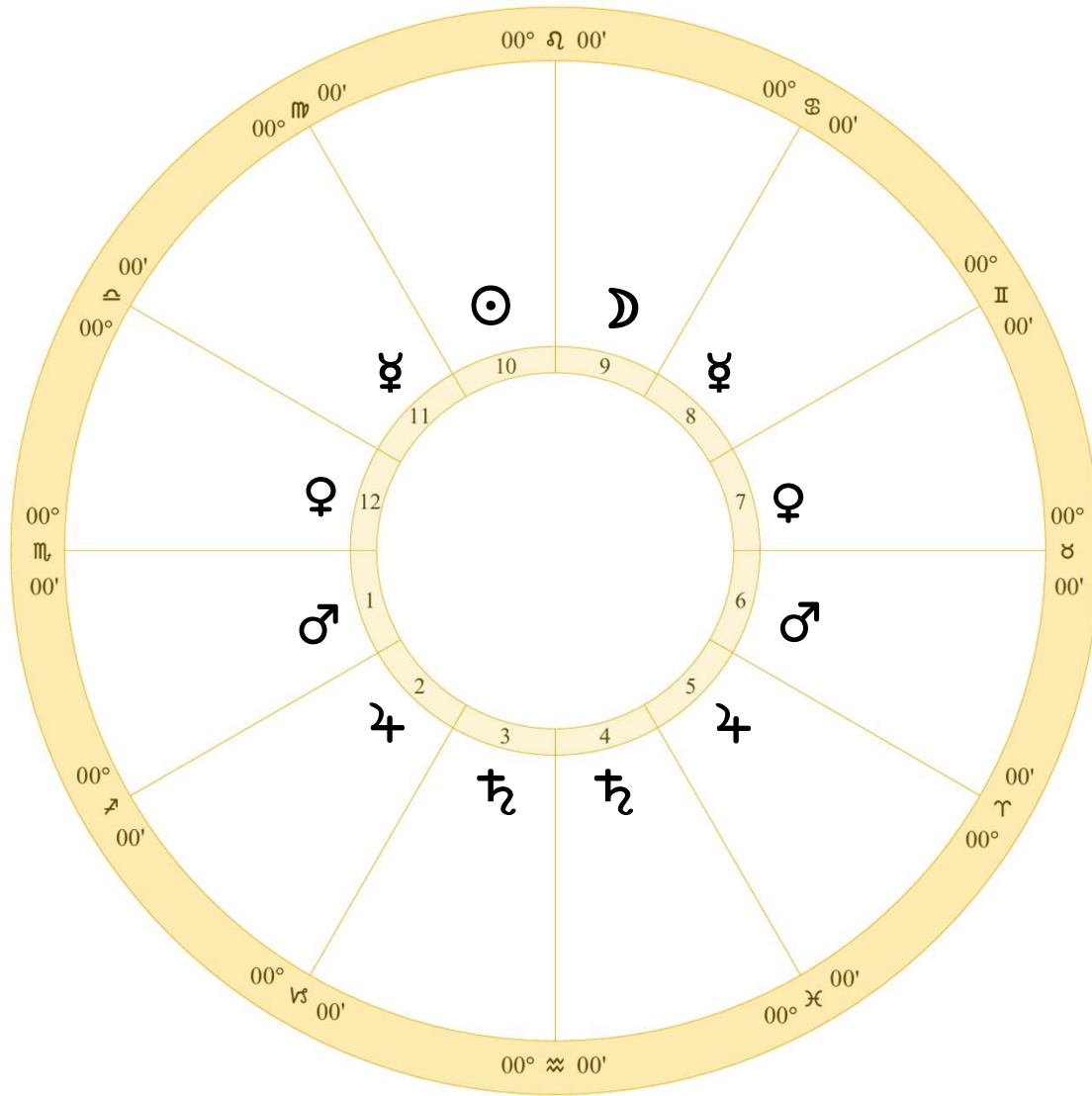
THE FIBONACCI SEQUENCE AND PLANETARY RULERSHIPS



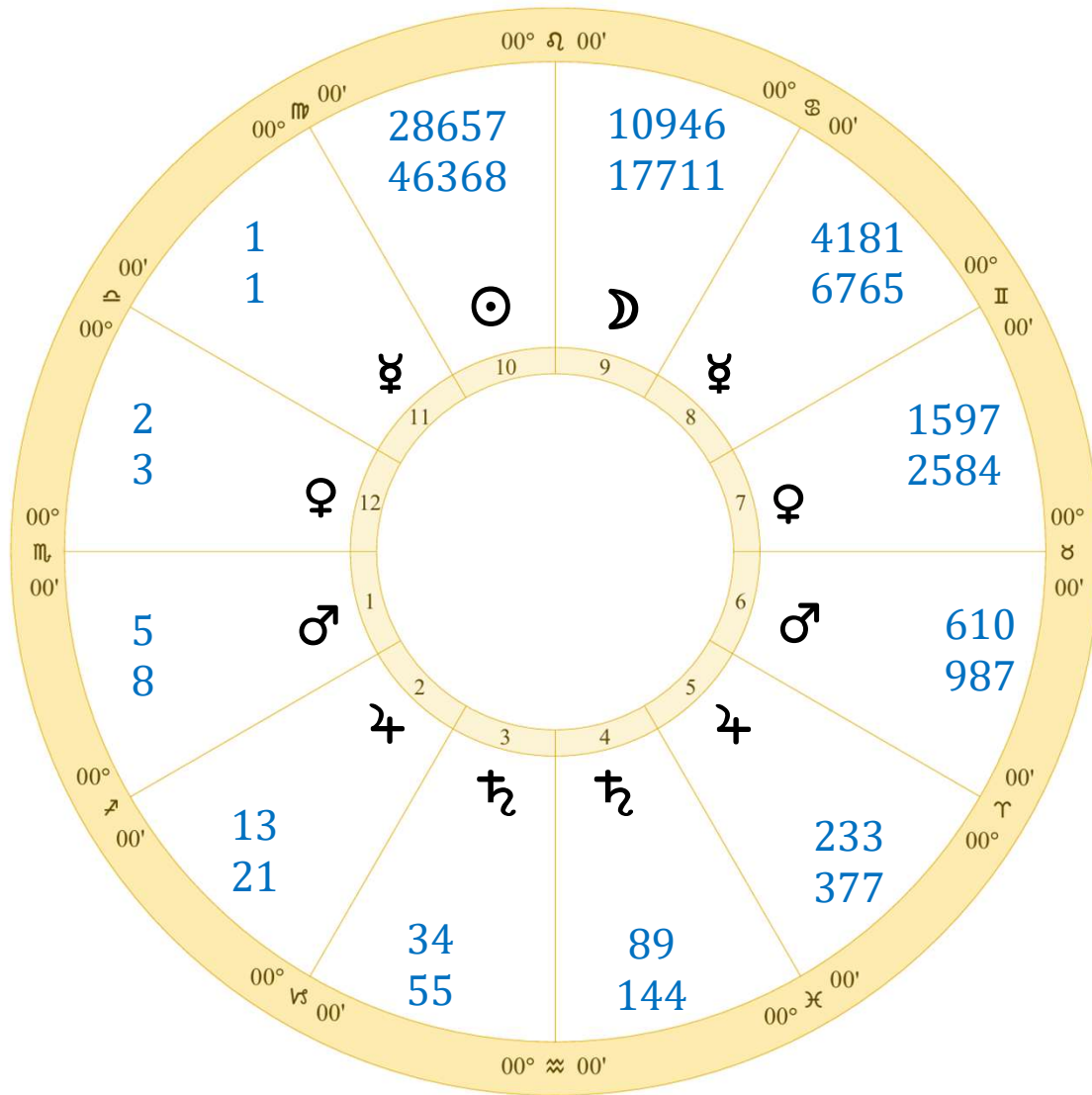
The *planet ladder* is a diagram that explains the ancient planetary rulerships of signs. It is often drawn with Taurus rising, and you can see how symmetry is used to explain why Mercury rules both Gemini and Virgo, Venus rules both Taurus and Libra, Mars rules both Aries and Scorpio, Jupiter rules both Pisces and Sagittarius, and Saturn rules both Aquarius and Capricorn.



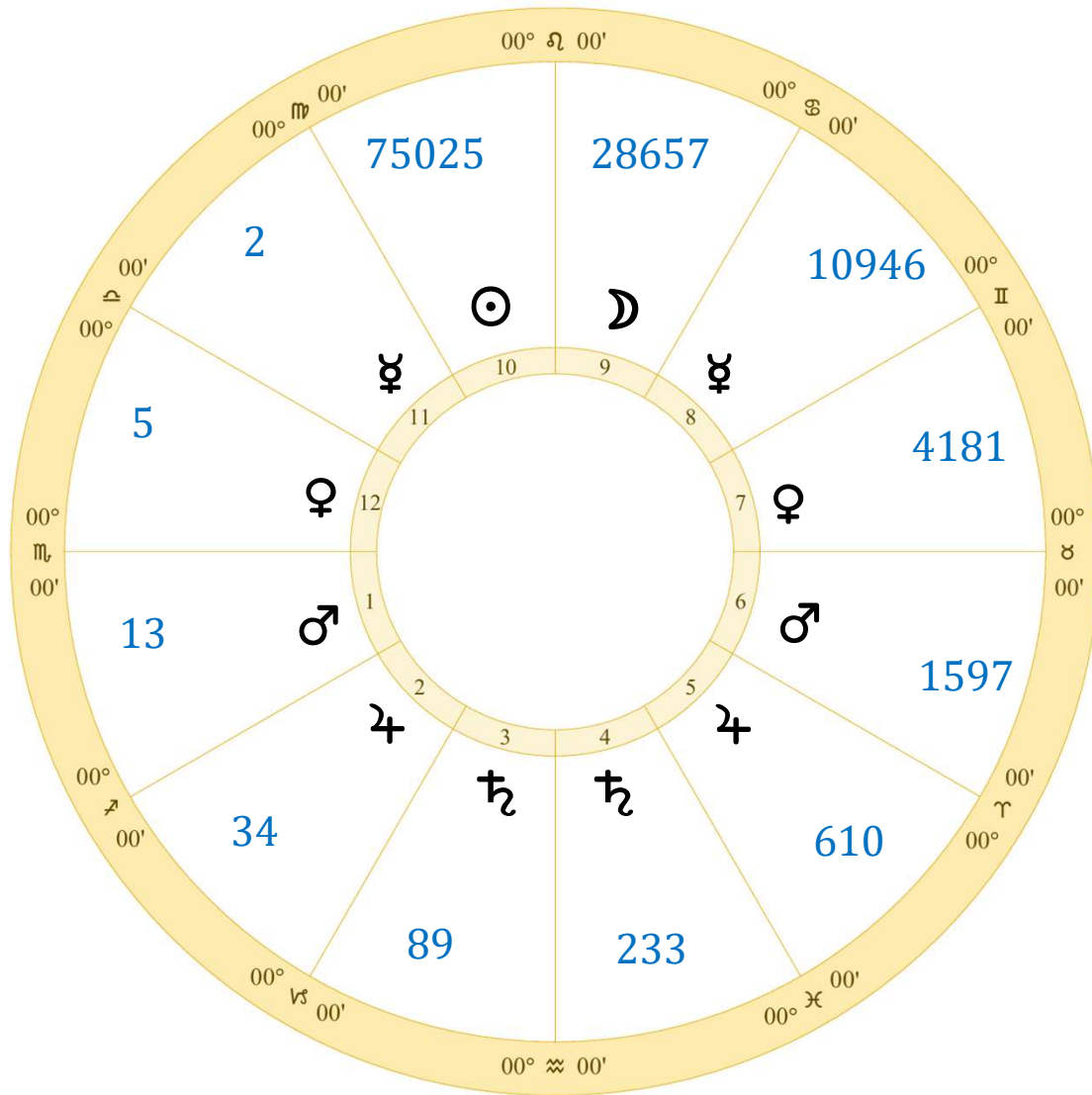
The *planet ladder* is also sometimes drawn with Scorpio rising and the Sun and the Moon at the top. I see this as an arrangement for the creation of the universe since Scorpio represents the powerful energies of the Big Bang, Sagittarius symbolizes an expanding universe, and Capricorn signifies the crystallization of energy into matter. In contrast, Aries rising may represent the birth of something in a universe that already exists.



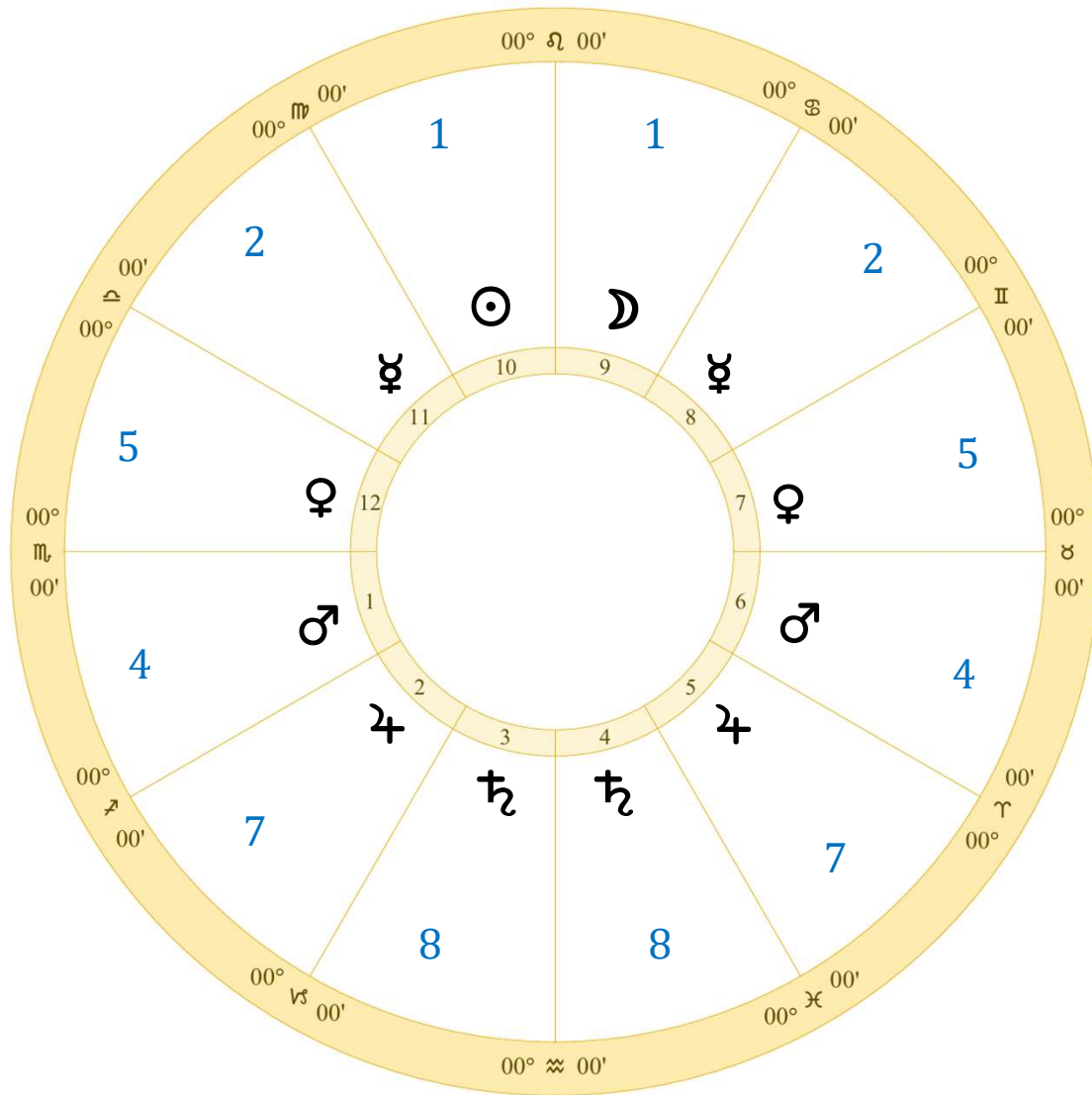
And now, we'll start with a planet ladder that is shown with Scorpio rising.



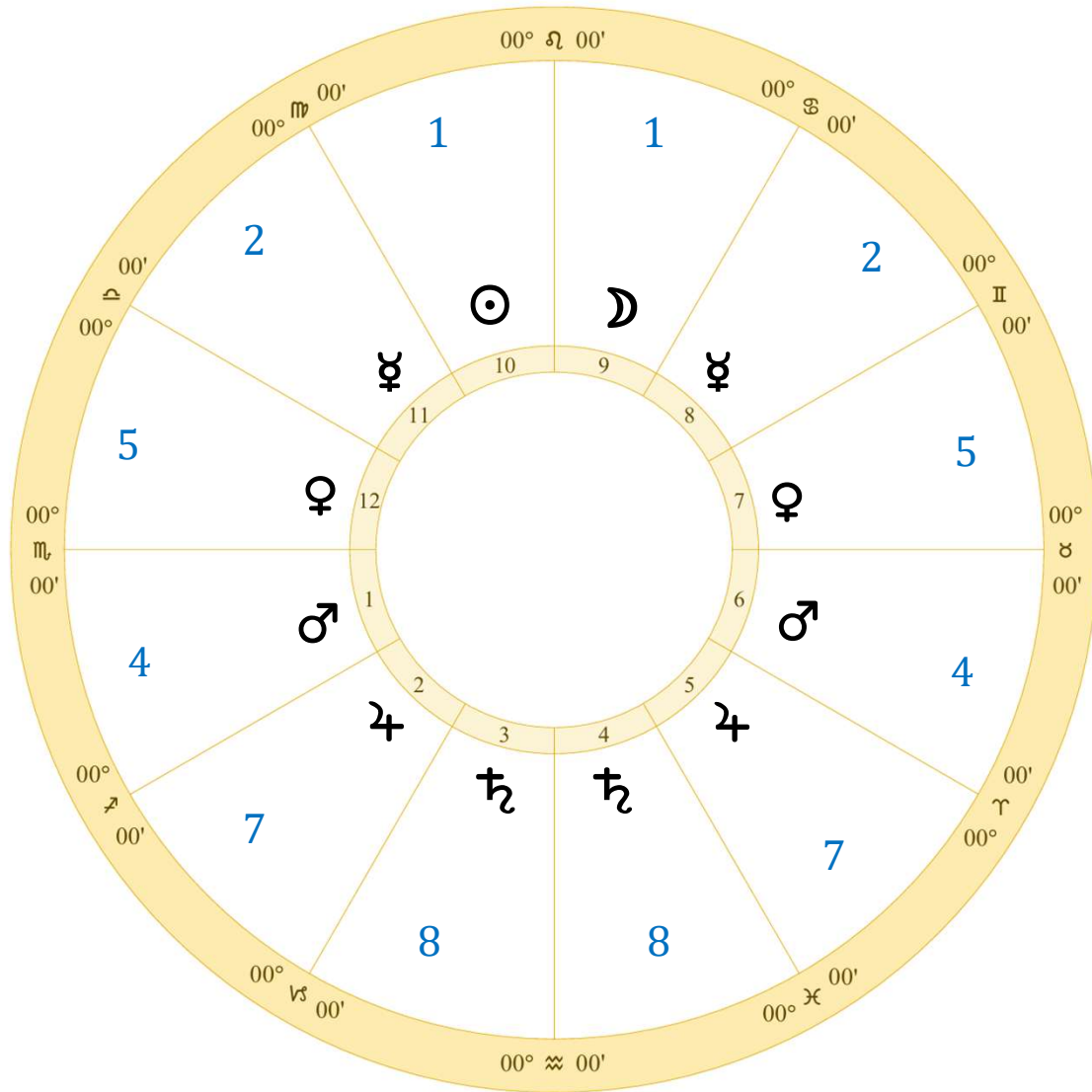
Next, we write the first 24 elements of the Fibonacci sequence starting with 1 in Virgo and then proceeding counterclockwise. Additionally, we'll assign two numbers of the Fibonacci sequence to each sign. Why do we do this? Primarily just because it works, but we could also see this as a reminder that succeeding terms in the Fibonacci sequence are generally the sum of the previous two.



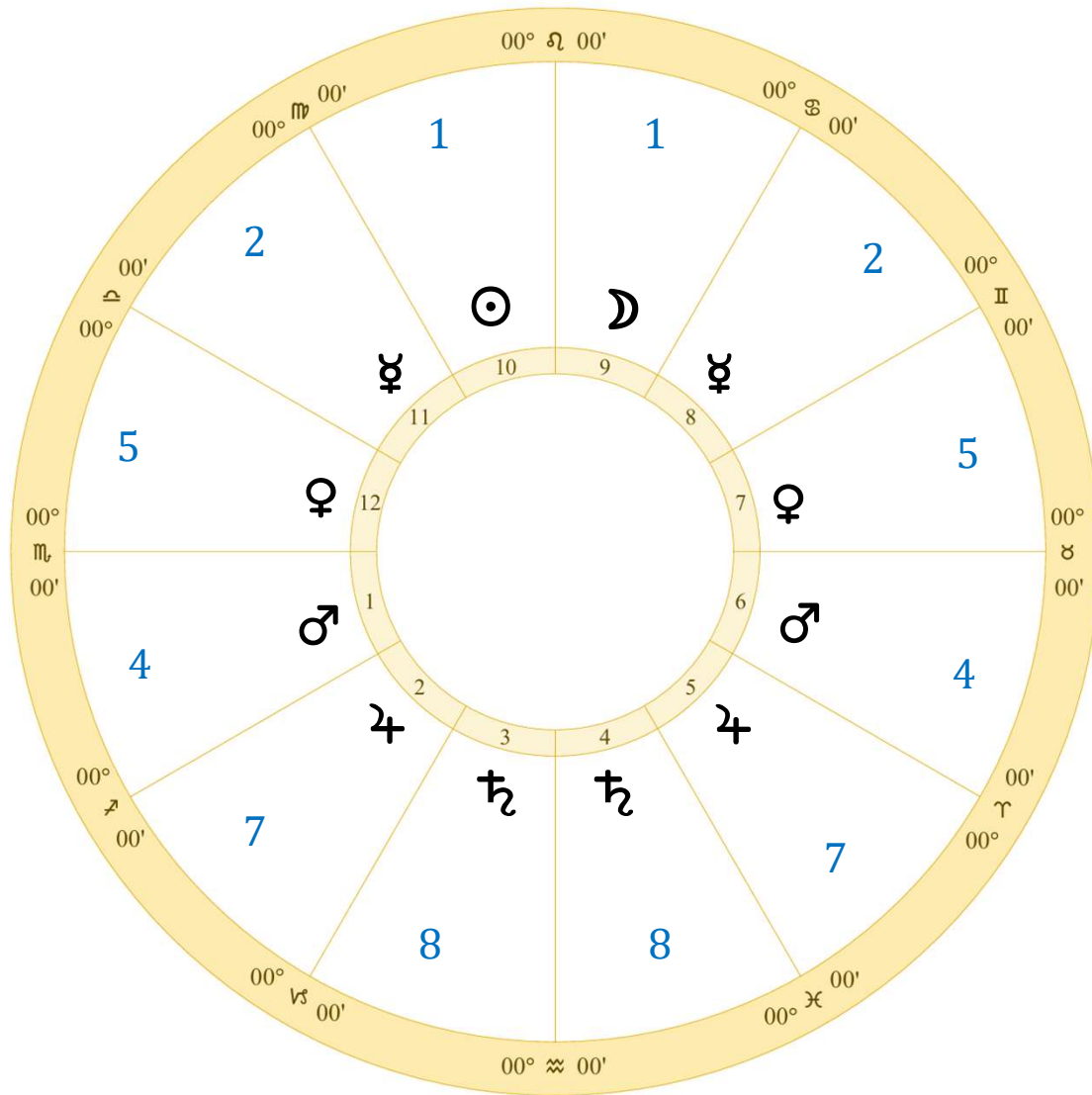
The next step is to add the two numbers placed in each sign together. Thus, for Virgo, $1+1 = 2$, for Libra $2+3 = 5$, and for Scorpio $5+8 = 13$.



And finally, we re-write each number *modulo* 9. For example, the number for Capricorn was 89, and this number *modulo* 9 is 8. Likewise, 233, the number for Aquarius, is equal to 8 *modulo* 9. And finally, if we look at the symmetry of the numbers around our wheel, it mirrors the symmetry of the planet ladder, and this is the first of several patterns we'll find between astrology and the Fibonacci sequence.

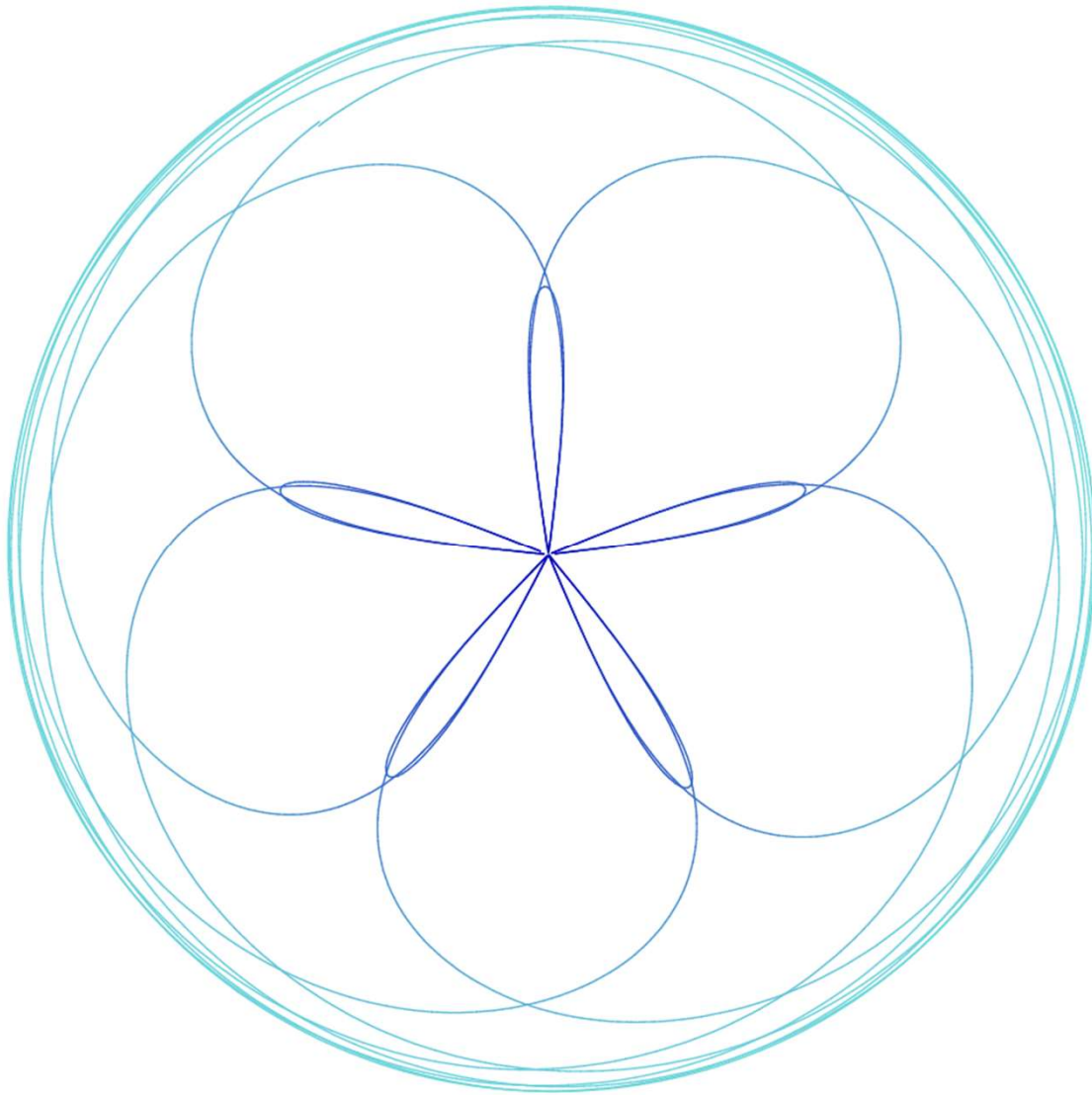


Interestingly, the planetary numbers found for this planet ladder seem to also correspond to their interpretations in vibrational astrology, a particular form of harmonic astrology. For example, the 1 harmonic represents conjunction or union, and the Sun and Moon represent the use of our conscious awareness that connects us with everything.

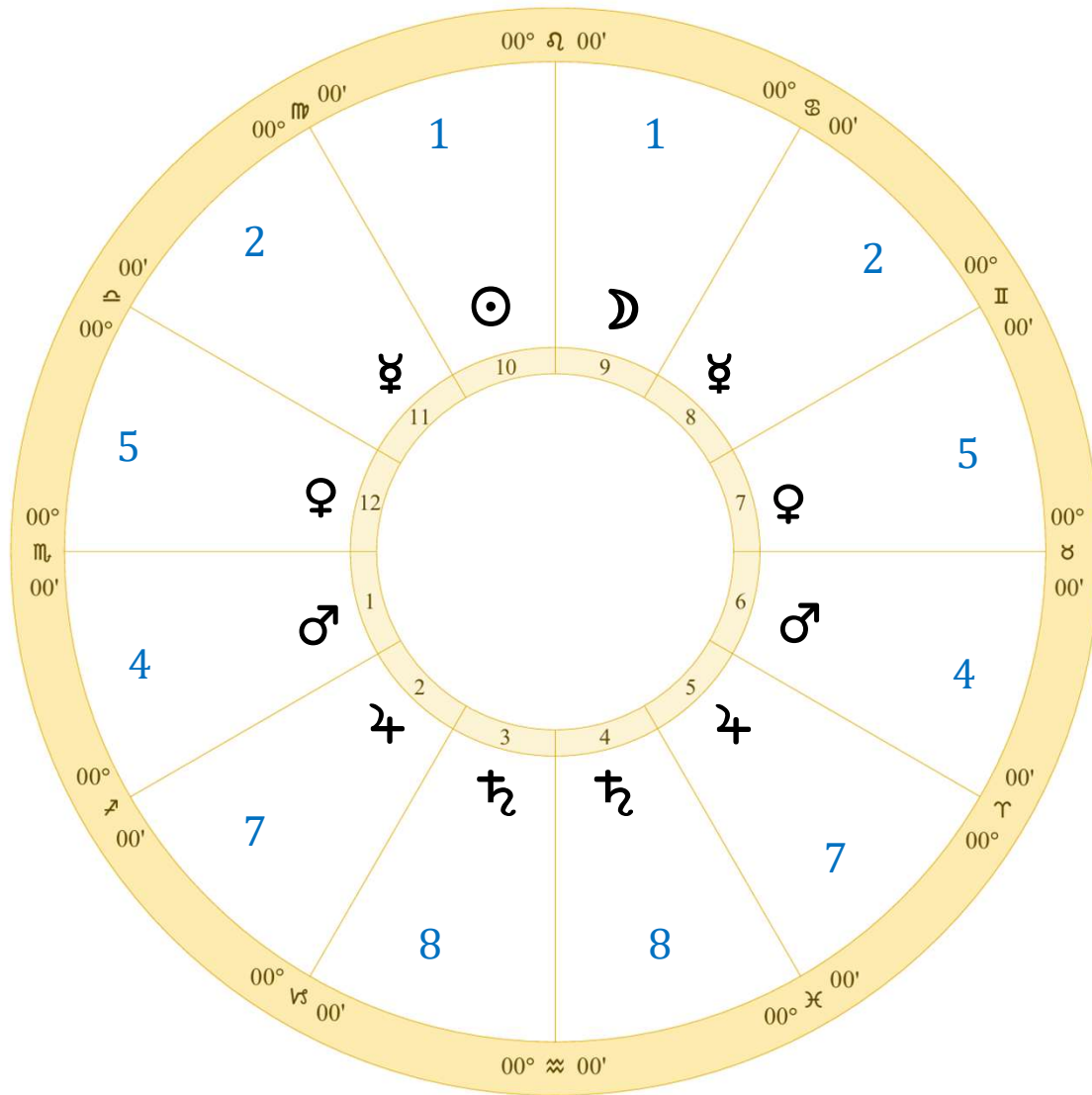


The number 2 (Mercury) corresponds to overcoming oppositions, and Mercury helps us reconcile opposites through logical thinking and communication.

The number 4 (Mars) represents squares and struggles, and that certainly conforms to the planet Mars in astrology.



The number 5 (Venus) corresponds to quintiles and that feeling of , playfulness, joy and euphoria such as after a successful first date. Also, the diagram on the left shows how the geocentric longitude of Venus varies over time as Venus orbits the Sun, and this diagram defines a 5-pointed star and pentagon. Additionally, if you take the ratio of any long side to the next longest side in a pentagram, then that ratio will always be the golden ratio.



The number 7 (Jupiter) corresponds to septiles and the kind of focus one has before a first date, and with Jupiter involved, this suggests the possibility of a larger reality coming into view if the date is successful

And lastly, the number 8 (Saturn) represents semisquares and the need to build, and Saturn, of course, is the master builder among the planets.

THE ZODIAC

THE FIBONACCI SEQUENCE AND TWELVE SIGNS

0	610	832040	1134903170
1	987	1346269	1836311903
1	1597	2178309	2971215073
2	2584	3524578	4807526976
3	4181	5702887	7778742049
5	6765	9227465	12586269025
8	10946	14930352	20365011074
13	17711	24157817	32951280099
21	28657	39088169	53316291173
34	46368	63245986	86267571272
55	75025	102334155	1.39584E+11
89	121393	165580141	2.25851E+11
144	196418	267914296	3.65435E+11
233	317811	433494437	5.91287E+11
377	514229	701408733	9.56722E+11

Many of our subsequent calculations will be done *modulo* 10, and the *Pisano period* for 10 is 60. Thus, on the left are the first 60 terms of the Fibonacci sequence if we begin our sequence with zero. We'll also let 0 correspond to 0° Aries.

0 AR	0 CN	0 LI	0 CP
1	7	9	3
1	7	9	3
2	4	8	6
3	1	7	9
5 TA	5 LE	5 SC	5 AQ
8	6	2	4
3	1	7	9
1	7	9	3
4	8	6	2
5 GE	5 VI	5 SG	5 PI
9	3	1	7
4	8	6	2
3	1	7	9
7	9	3	1

We next re-write each Fibonacci number *modulo* 10, and notice that the numbers 0 and 5 occur exactly 12 times and are equally spaced, thus corresponding to the 12 astrological signs.

Additionally, with the cardinal signs starting with 0, this suggests the specialness that these signs hold within astrology.

(0,1,1,2,3)	AR		(0,9,9,8,7)	LI
(5,8,3,1,4)	TA		(5,2,7,9,6)	SC
(5,9,4,3,7)	GE		(5,1,6,7,3)	SG
(0,7,7,4,1)	CN		(0,3,3,6,9)	CP
(5,6,1,7,8)	LE		(5,4,9,3,2)	AQ
(5,3,8,1,9)	VI		(5,7,2,9,1)	PI

Furthermore, each sequence of five numbers from the table on the previous slide can be considered as a 5-digit code for the corresponding sign. There are other sequences besides *Pisano 10* that contain a pattern of 12, but we'll stick with *Pisano 10* since it is also the source of several other patterns that are found in astrology.

THE ELEMENTS

**THE FIBONACCI SEQUENCE AND
FIRE, EARTH, AIR, AND WATER**

(0,1,1,2,3)	AR		(0,9,9,8,7)	LI
(5,8,3,1,4)	TA		(5,2,7,9,6)	SC
(5,9,4,3,7)	GE		(5,1,6,7,3)	SG
(0,7,7,4,1)	CN		(0,3,3,6,9)	CP
(5,6,1,7,8)	LE		(5,4,9,3,2)	AQ
(5,3,8,1,9)	VI		(5,7,2,9,1)	PI

To find a pattern that mimics the four elements in astrology, we'll begin with our 5-digit *modulo* 10 codes for Aries through Pisces that we presented at the end of the last section.

Fire			Earth	
(0,1,1,2,3)	AR		(5,8,3,1,4)	TA
(5,6,1,7,8)	LE		(5,3,8,1,9)	VI
(5,1,6,7,3)	SG		(0,3,3,6,9)	CP
Air			Water	
(5,9,4,3,7)	GE		(0,7,7,4,1)	CN
(0,9,9,8,7)	LI		(5,2,7,9,6)	SC
(5,4,9,3,2)	AQ		(5,7,2,9,1)	PI

Next, we group our 5-digit *modulo* 10 codes by element (fire, earth, air, water).

Fire			Earth	
(0,1,1,2,3)	AR		(0,3,3,1,4)	TA
(0,1,1,2,3)	LE		(0,3,3,1,4)	VI
(0,1,1,2,3)	SG		(0,3,3,1,4)	CP
Air			Water	
(0,4,4,3,2)	GE		(0,2,2,4,1)	CN
(0,4,4,3,2)	LI		(0,2,2,4,1)	SC
(0,4,4,3,2)	AQ		(0,2,2,4,1)	PI

And finally, we re-write each code *modulo* 5, and when we do so, we discover that within each element the codes for the signs become the same! Thus, in addition to a pattern of 12 for the twelve signs, the Fibonacci sequence also contains a pattern that mirrors the four elements in astrology.

0 SC	0 AQ	0 TA	0 LE
1	7	9	3
1	7	9	3
2	4	8	6
3	1	7	9
5 SG	5 PI	5 GE	5 VI
8	6	2	4
3	1	7	9
1	7	9	3
4	8	6	2
5 CP	5 AR	5 CN	5 LI
9	3	1	7
4	8	6	2
3	1	7	9
7	9	3	1

We can do a similar analysis by pairing our 5-digit *modulo 10* codes with a zodiac that begins at Scorpio instead of Aries, and in this respect, I think of the Scorpio zodiac as representing the zodiac for the creation of the universe!

In contrast to the Scorpio zodiac, I interpret the Aries zodiac as referring to new beginnings in an already existing universe.

Water			Fire	
(0,1,1,2,3)	SC		(5,8,3,1,4)	SG
(5,6,1,7,8)	PI		(5,3,8,1,9)	AR
(5,1,6,7,3)	CN		(0,3,3,6,9)	LE
Earth			Air	
(5,9,4,3,7)	CP		(0,7,7,4,1)	AQ
(0,9,9,8,7)	TA		(5,2,7,9,6)	GE
(5,4,9,3,2)	VI		(5,7,2,9,1)	LI

In the Scorpio zodiac, our 5-digit *modulo* 10 codes for the signs of each element are given in the table to the left.

Water			Fire	
(0,1,1,2,3)	SC		(0,3,3,1,4)	SG
(0,1,1,2,3)	PI		(0,3,3,1,4)	AR
(0,1,1,2,3)	CN		(0,3,3,1,4)	LE
Earth			Air	
(0,4,4,3,2)	CP		(0,2,2,4,1)	AQ
(0,4,4,3,2)	TA		(0,2,2,4,1)	GE
(0,4,4,3,2)	VI		(0,2,2,4,1)	LI

WATER =	(0+1+1+2+3) modulo 10 =	7
FIRE =	(0+3+3+1+4) modulo 10 =	1
EARTH =	(0+4+4+3+2) modulo 10 =	3
AIR =	(0+2+2+4+1) modulo 10 =	9

If we convert each *modulo 10* sequence to *modulo 5*, then once again each sign within a particular element has the same code. Furthermore, if we add together the 5 numbers for each sign and reduce the result *modulo 10*, then we presumably get a number for each element at the time of primordial creation. We'll use these numbers next to find a pattern for the three modes (cardinal, fixed, and mutable).

THE MODES

CARDINAL, FIXED, MUTABLE

Fire			Earth	
(0,1,1,2,3)	AR		(5,8,3,1,4)	TA
(5,6,1,7,8)	LE		(5,3,8,1,9)	VI
(5,1,6,7,3)	SG		(0,3,3,6,9)	CP
Air			Water	
(5,9,4,3,7)	GE		(0,7,7,4,1)	CN
(0,9,9,8,7)	LI		(5,2,7,9,6)	SC
(5,4,9,3,2)	AQ		(5,7,2,9,1)	PI

The Fibonacci pattern for the three modes (cardinal, fixed, and mutable) involves both the Aries zodiac and the Scorpio zodiac. Thus, we'll begin with the 5-digit codes *modulo* 10 for the Aries zodiac grouped by element.

	Cardinal
(0,1,1,2,3)	AR
(0,7,7,4,1)	CN
(0,9,9,8,7)	LI
(0,3,3,6,9)	CP
	Fixed
(5,8,3,1,4)	TA
(5,6,1,7,8)	LE
(5,2,7,9,6)	SC
(5,4,9,3,2)	AQ
	Mutable
(5,9,4,3,7)	GE
(5,3,8,1,9)	VI
(5,1,6,7,3)	SG
(5,7,2,9,1)	PI

Next, we regroup these signs and codes by mode instead of element. However, remember what we found earlier as the single digit number for each element using a Scorpio zodiac. Specifically, we found that water = 7, fire = 1, earth = 3, and air = 9. Again, notice that our codes for the modes are found with respect to the Aries zodiac while the numbers for the elements are found using the Scorpio zodiac.

WATER =	(0+1+1+2+3) modulo 10 =	7
FIRE =	(0+3+3+1+4) modulo 10 =	1
EARTH =	(0+4+4+3+2) modulo 10 =	3
AIR =	(0+2+2+4+1) modulo 10 =	9

		Cardinal
1(0,1,1,2,3) MOD 10 =	(0,1,1,2,3)	AR
7(0,1,1,2,3) MOD 10 =	(0,7,7,4,1)	CN
9(0,1,1,2,3) MOD 10 =	(0,9,9,8,7)	LI
3(0,1,1,2,3) MOD 10 =	(0,3,3,6,9)	CP
		Fixed
3(5,6,1,7,8) MOD 10 =	(5,8,3,1,4)	TA
1(5,6,1,7,8) MOD 10 =	(5,6,1,7,8)	LE
7(5,6,1,7,8) MOD 10 =	(5,2,7,9,6)	SC
9(5,6,1,7,8) MOD 10 =	(5,4,9,3,2)	AQ
		Mutable
9(5,1,6,7,3) MOD 10 =	(5,9,4,3,7)	GE
3(5,1,6,7,3) MOD 10 =	(5,3,8,1,9)	VI
1(5,1,6,7,3) MOD 10 =	(5,1,6,7,3)	SG
7(5,1,6,7,3) MOD 10 =	(5,7,2,9,1)	PI

For cardinal signs, we start with the 5-digit code for Aries, and we multiply it by the fire number (1) *modulo* 10. The result is that we get back the code for the fire sign Aries. If we now multiply *modulo* 10 the Aries code by 7 for water, notice that we get back the code for the water sign Cancer, and if we multiply by 9 (air) we get back the code for Libra, and if we multiply by 3 (earth) we get back the code for Capricorn.

WATER =	(0+1+1+2+3) modulo 10 =	7
FIRE =	(0+3+3+1+4) modulo 10 =	1
EARTH =	(0+4+4+3+2) modulo 10 =	3
AIR =	(0+2+2+4+1) modulo 10 =	9

		Cardinal
1(0,1,1,2,3) MOD 10 =	(0,1,1,2,3)	AR
7(0,1,1,2,3) MOD 10 =	(0,7,7,4,1)	CN
9(0,1,1,2,3) MOD 10 =	(0,9,9,8,7)	LI
3(0,1,1,2,3) MOD 10 =	(0,3,3,6,9)	CP
		Fixed
3(5,6,1,7,8) MOD 10 =	(5,8,3,1,4)	TA
1(5,6,1,7,8) MOD 10 =	(5,6,1,7,8)	LE
7(5,6,1,7,8) MOD 10 =	(5,2,7,9,6)	SC
9(5,6,1,7,8) MOD 10 =	(5,4,9,3,2)	AQ
		Mutable
9(5,1,6,7,3) MOD 10 =	(5,9,4,3,7)	GE
3(5,1,6,7,3) MOD 10 =	(5,3,8,1,9)	VI
1(5,1,6,7,3) MOD 10 =	(5,1,6,7,3)	SG
7(5,1,6,7,3) MOD 10 =	(5,7,2,9,1)	PI

This same pattern holds, too, for the fixed and mutable signs. Thus, starting in each mode with the code for the fire sign, if we multiply in turn, *modulo* 10, by 1 (fire), 7 (water), 9 (air), and 3 (earth), then we will always get back the code within that mode for the fire, water, air, or earth sign. This is a very strong connection between the Fibonacci sequence and both the Aries and Scorpio zodiacs!

WATER =	(0+1+1+2+3) modulo 10 =	7
FIRE =	(0+3+3+1+4) modulo 10 =	1
EARTH =	(0+4+4+3+2) modulo 10 =	3
AIR =	(0+2+2+4+1) modulo 10 =	9

MASCULINE AND FEMININE SIGNS

**THE FIBONACCI SEQUENCE AND
POSITIVE VERSUS NEGATIVE SIGNS**

Fire			Earth	
(0,1,1,2,3)	AR		(0,3,3,1,4)	TA
(0,1,1,2,3)	LE		(0,3,3,1,4)	VI
(0,1,1,2,3)	SG		(0,3,3,1,4)	CP
Air			Water	
(0,4,4,3,2)	GE		(0,2,2,4,1)	CN
(0,4,4,3,2)	LI		(0,2,2,4,1)	SC
(0,4,4,3,2)	AQ		(0,2,2,4,1)	PI

In astrology, the fire and air signs are called positive or masculine and the water and earth signs are called negative or feminine. To find a Fibonacci connection to this classification, we'll begin with the 5-digit *modulo 5* codes for the Aries zodiac.

	Fire	
$4(0,4,4,3,2) \text{ MOD } 5 =$	(0,1,1,2,3)	AR
	(0,1,1,2,3)	LE
	(0,1,1,2,3)	SG
	Air	
$4(0,1,1,2,3) \text{ MOD } 5 =$	(0,4,4,3,2)	GE
	(0,4,4,3,2)	LI
	(0,4,4,3,2)	AQ

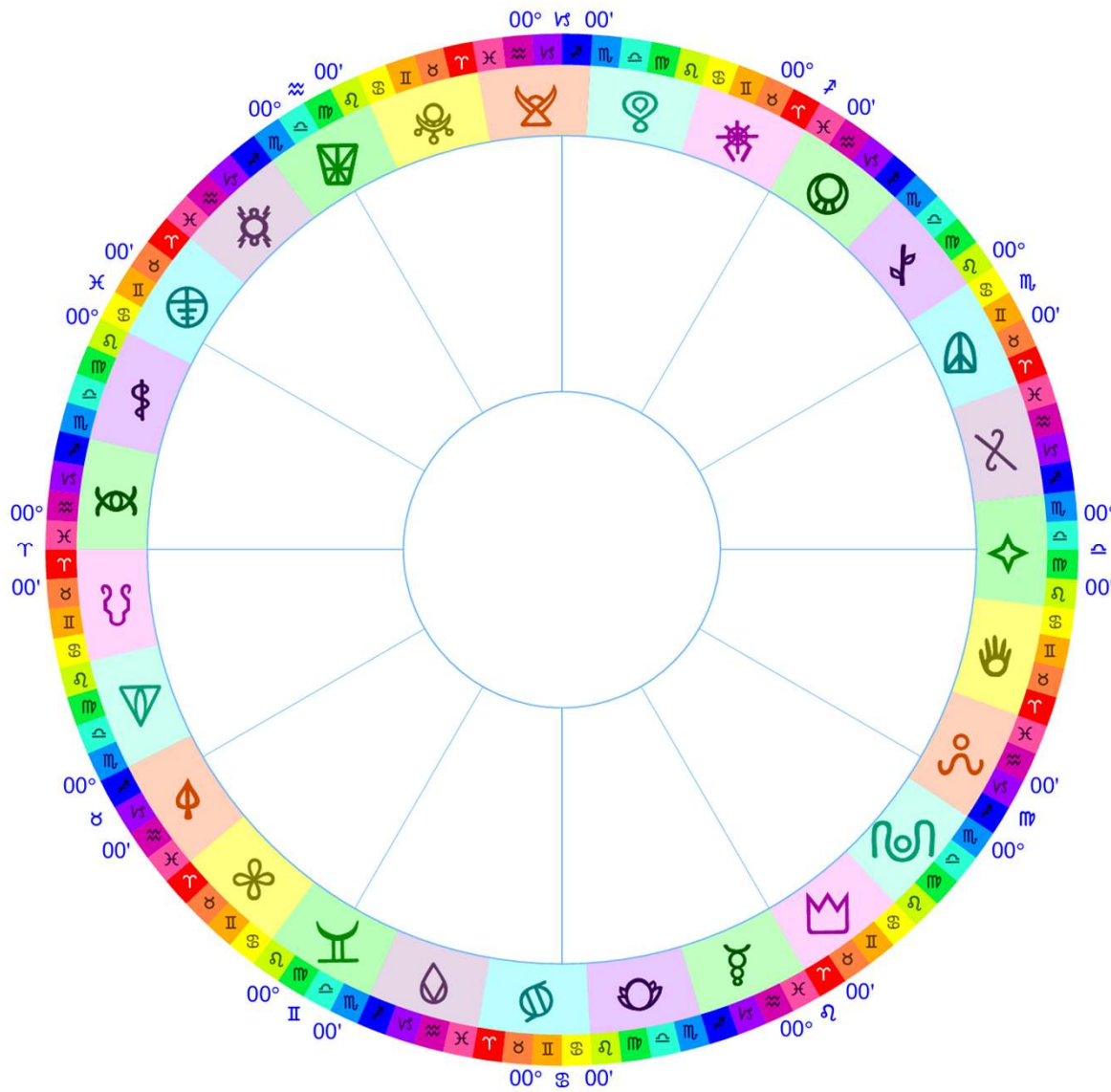
Next, observe that if you multiply each of the numbers in the code for air by 4 and then express the result *modulo* 5, you get the code for fire. Similarly, if you multiply each number in the code for fire by 4 and then express the result *modulo* 5, you get the code for air. This procedure connects positive signs (fire and air) with one another.

	Earth	
$4(0,2,2,4,1) \text{ MOD } 5 =$	(0,3,3,1,4)	TA
	(0,3,3,1,4)	VI
	(0,3,3,1,4)	CP
	Water	
$4(0,3,3,1,4) \text{ MOD } 5 =$	(0,2,2,4,1)	CN
	(0,2,2,4,1)	SC
	(0,2,2,4,1)	PI

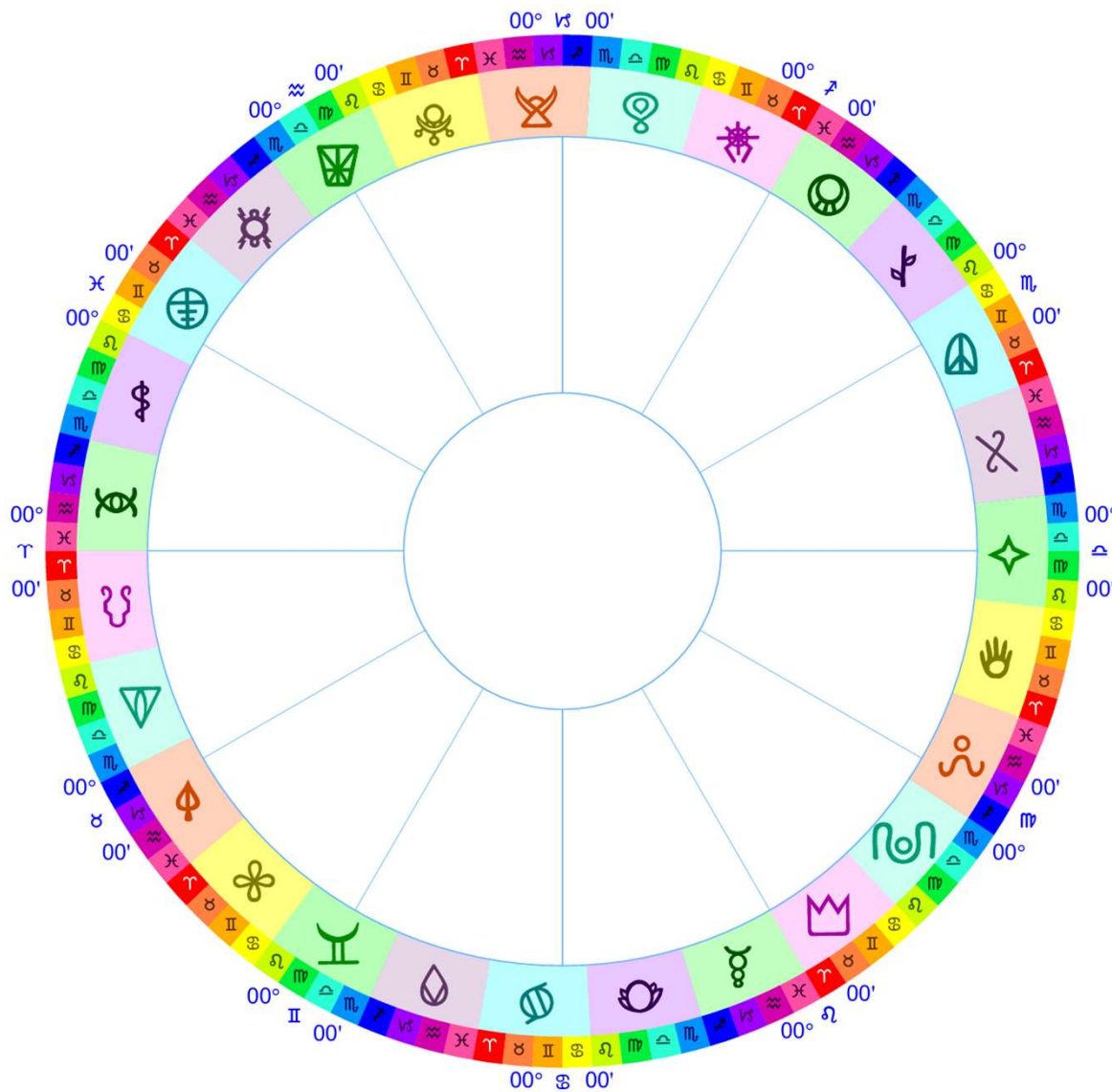
Similarly, if you multiply each of the five numbers in the code for water by 4 and then express the result *modulo* 5, you get the code for earth, and if you multiply each number in the code for earth by 4 and then express the result *modulo* 5, you get the code for water. Thus, negative or feminine signs are also connected with one another by the Fibonacci sequence.

THE NAKSHATRAS

THE FIBONACCI SEQUENCE AND VEDIC ASTROLOGY



In Vedic astrology, the zodiac is divided into 27 lunar mansions called *nakshatras*. This division is based on the 27 day length of the *sidereal month*. Each *nakshatra* is then further divided into four sections called *padas*. This results in a division of the zodiac into 108 *padas*, and each sign of the zodiac is comprised of 9 *padas*.



We will find a pattern related to these subdivisions if we construct *Pisano 81*. This *Pisano period* has a cycle of 216 elements that repeat, and so we'll do the following:

1. Put two consecutive numbers of *Pisano 81* in each *pada* beginning with 0° Aries
2. Add the two numbers in each *pada* together to reduce the period to 108.
3. Express all the results *modulo 3*.

	1	2	3	4
0+	1	0	2	0
4+	1	0	2	0
8+	1	0	2	0
12+	1	0	2	0
16+	1	0	2	0
20+	1	0	2	0

If we look at the results for the first six *nakshatras*, the patterns are already very clear. Each *nakshatra* is coded by the sequence (1,0,2,0).

Furthermore, within each *nakshatra*, the 1st *pada* is always 1, the second *pada* is always 0, the 3rd *pada* is always 2, and the 4th *pada* is always 0.

	1	2	3	4	5	6	7	8	9	Sum modulo 3	Sign
0+	1	0	2	0	1	0	2	0	1	1	AR
9+	0	2	0	1	0	2	0	1	0	0	TA
18+	2	0	1	0	2	0	1	0	2	2	GE
27+	0	1	0	2	0	1	0	2	0	0	CN

There are 9 *padas* in each zodiac sign, and if we display our *modulo 3 padas* in groups of 9, then we will get a numeric pattern that repeats every 4 signs. Additionally, we have a different sequence for each of the elements (fire, earth, air, and water), and so these 9-digit codes also distinguish between the elements. Furthermore, if for each sign we take the sum of the *modulo 3 padas* and then display that sum *modulo 3*, we get back the same sequence (1,0,2,0) that occurs in each *nakshatra*. This suggests that the 4 *padas* in each *nakshatra* are related to the 4 elements of fire, earth, air, and water. And finally, we note that the above sums *modulo 3* are zero for feminine signs and non-zero for masculine signs.

SUMMATION

In summary, I have presented in this slide show just a few of the important patterns contained within *Pisano periods* that are mirrored by astrological features such as the elements and modes of zodiac signs as well as other phenomena like the nakshatras of Vedic astrology. There are an enormous number of patterns in the Fibonacci sequence, and I have extracted out of this enormous number just a few of the more salient ones that are related to the basics of traditional astrology. As we've seen, many of these pattern exist within *Pisano 10*, but other *Pisano periods* also appear to be important, too, and I suspect that it will eventually be shown that every pattern in the Fibonacci sequence has relevance to some connection between celestial and terrestrial events.

CONCLUSIONS

Critics might say that all I have done is akin to looking at clouds in order to identify random images that occur. However, I would reply that nothing is further from the truth. For one thing, I already know what astrological elements I want to find patterns for. Thus, this is more like looking at clouds and expecting to find not only a detailed image of your house but also images of every single room inside your house! That is not so easy to do when looking at clouds. Furthermore, not every *Pisano period* easily yields the kinds of patterns we're looking for, and so it is not the case that we can simply pick any *Pisano period* at random and discover patterns related to traditional astrology. In other words, it is unlikely that the patterns we are seeing are simply chance occurrences. Instead, they are patterns that reflect the basics of astrology and, consequently, they tell us that astrology has a structure similar to that found within the sequence of Fibonacci numbers.

A question that has to be asked, though, is not only why do Fibonacci patterns appear in astrology but also why do Fibonacci patterns appear throughout nature? The answer appears to be unknown, but I would point out that just as the Fibonacci sequence is defined by the recursive relation $a_{n-1} + a_n = a_{n+1}$, so might we think of reality as being defined by a similar recursive relation, namely *past + present = future*. A lot more dots will have to be connected to verify that this is why Fibonacci patterns occur in both nature and astrology, but this looks like a good starting point.

And one last point I would make is that just as any pattern that appears in a mathematical model for physics tends to have relevance for the physical world, so do I suspect that any pattern in the Fibonacci sequence will also signify some application to astrology. In other words, the adventure has just begun!

Videos by Santino Mancuso on YouTube

Cosmic Cybernetics and Cosmobiology

Fibonacci Numbers As A Basis of the Zodiac

Santino Mancuso

<https://www.youtube.com/watch?v=6QQU9lq91ok>

Cardinal, Fixed and Mutable Signs: Where They Come From

Santino Mancuso

https://www.youtube.com/watch?v=Qq_E_jxKl0U

Fibonacci Numbers, Ruling Planets of Zodiac Signs, and Modern Physics

Santino Mancuso

https://www.youtube.com/watch?v=Zfm_7MQWalM

Fibonacci Numbers as a Basis of Ruling Planets of Zodiac Signs

Santino Mancuso

https://www.youtube.com/watch?v=SwHRg_IUPpU

Fibonacci Numbers as the Basis of the 4 Elements in Astrology

Santino Mancuso

<https://www.youtube.com/watch?v=bO8yADIimJI>

Fibonacci Numbers, the 4 Elements, Zodiac Sign Gender, and the Planet Ladder

Santino Mancuso

<https://www.youtube.com/watch?v=jZ4hmavlyDk>

Why There Are Nakshatras: Sacred Geometry

Santino Mancuso

<https://www.youtube.com/watch?v=uZpjC4hdvUk>

Exaltation and Joys of Planets, and Prime Numbers

Santino Mancuso

https://www.youtube.com/watch?v=_yzxiAEmuwk

Zero Scorpio: the Cosmic Fusion Point

Santino Mancuso

https://www.youtube.com/watch?v=Oaow_8vOw7o