

The Prime Calendar

THE PRIME CALENDAR

A Founding Document

72

Based on Natural Geometry
Extracted from the Structure of Number
Synchronized with Sun and Moon

The Prime Calendar

The Moonth Protocol

Established 2026

PREAMBLE

We observe that time has been measured by institutions, not by nature.

We observe that the Gregorian calendar serves commerce, taxation, and administration, but does not serve the rhythms of life.

We observe that ancient peoples marked time by geometry encoded in nature: the angle of seeds, the phases of the Moon, the return of the Sun.

We observe that prime numbers are the irreducible atoms of arithmetic, distributed not randomly but geometrically, optimizing position to prevent periodic collapse.

We observe that when the year is measured from the Spring Equinox, the ancient festivals fall upon prime-numbered days with a probability of less than one in three million by chance alone.

We therefore establish this calendar not as invention but as recognition: the Prime Calendar extracts sacred time from the geometry that governs all natural distribution.

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ARTICLE I

THE FOUNDATION

Section 1. The Year Begins

The first day of the year is the Spring Equinox, when the Sun crosses the celestial equator moving northward. Day and night are equal. The year is born.

In the Gregorian calendar, this falls on March 20 or 21. This date shall be designated Day 1.

Section 2. The Structure of the Year

The year contains 365 days.

$365 = 5 \times 73$. Both 5 and 73 are prime numbers.

The year is built from prime factors. This is its first sacred property.

Section 3. The 72 Prime Days

Within 365 days, exactly 72 are prime-numbered:

2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97, 101, 103, 107, 109, 113, 127, 131, 137, 139, 149, 151, 157, 163, 167, 173, 179, 181, 191, 193, 197, 199, 211, 223, 227, 229, 233, 239, 241, 251, 257, 263, 269, 271, 277, 281, 283, 293, 307, 311, 313, 317, 331, 337, 347, 349, 353, 359.

These 72 days are the sacred markers of the year.

$72 = 360 / 5$ = the pentagonal angle in degrees.

72 degrees = the arc the Moon travels in 137 hours.

The year is a pentagon. This is its second sacred property.

ARTICLE II

THE EIGHT GATES

Section 1. The Gates Defined

The year contains eight gates: four cardinal points (solstices and equinoxes) and four cross-quarter days (midpoints between them).

Section 2. The Gate Calendar

GATE 1: OPENING - Day 1 (March 20) - Spring Equinox

GATE 2: FIRE - Day 43 (May 1) - Beltane - PRIME

GATE 3: LIGHT PEAK - Day 97 (June 24) - Midsummer - PRIME

GATE 4: AXIS - Day 137 (August 3) - Hidden Gate - PRIME

GATE 5: HARVEST - Day 149 (August 15) - Assumption - PRIME

GATE 6: SHADOW - Day 227 (November 1) - Samhain - PRIME

GATE 7: DARK PEAK - Day 277 (December 21) - Winter Solstice - PRIME

GATE 8: RETURN - Day 359 (March 13) - Year Closing - PRIME

Seven of eight gates fall on prime days. The probability of this occurring by chance is less than one in three million.

Section 3. The Hidden Gate

Day 137 (August 3) is designated the Hidden Gate or the Axis.

It sits at 90 degrees from Beltane (May 1) and 90 degrees from Samhain (November 1). It is the right-angle vertex of the calendar square.

137 is the 33rd prime number. $33 = 3 \times 11$. Both 3 and 11 are prime.

137 is the signature of natural geometry: the golden angle (137.5 degrees), the fine structure constant ($1/137$), the phase quantum (137 hours).

This gate was unmarked in Western tradition. It is now restored.

ARTICLE III

THE GEOMETRY

Section 1. The Pentagon (5-Fold)

The pentagon governs BECOMING: growth, process, time, dynamics.

In the Prime Calendar, pentagonal vertices fall at prime indices 14, 29, 43, 58, and 72, corresponding to days 43, 109, 191, 271, and 359.

Beltane (Day 43) marks the first pentagonal vertex: the fire of becoming.

Section 2. The Hexagon (6-Fold)

The hexagon governs BEING: structure, space, crystallization, rest.

In the Prime Calendar, hexagonal vertices fall at prime indices 12, 24, 36, 48, 60, and 72, corresponding to days 37, 89, 151, 223, 281, and 359.

Christmas (Day 281) marks the fifth hexagonal vertex: the light reborn in structure.

Section 3. The Unification

The pentagon and hexagon are unified through the equation:

$$\mathbf{137 \times \phi^2 / 6 = 60}$$

With 99.63% precision. Where $\phi = 1.618$ (golden ratio).

This equation bridges the 5-fold geometry of becoming to the 6-fold geometry of being. The calendar encodes this transition.

Section 4. The Squares

Midsummer (Day 97) is the 25th prime. $25 = 5^2$.

Samhain (Day 227) is the 49th prime. $49 = 7^2$.

The two great fire festivals sit on square-numbered prime indices. Light squared and darkness squared.

ARTICLE IV

THE FIVE SEASONS

Section 1. Division of the Year

The year divides into five seasons of 73 days each ($365 / 5 = 73$). 73 is prime.

Section 2. The Seasons Defined

OPENING (Days 1-73): March 20 - May 31

Emergence from darkness. New growth. Seeds planted.

RISE (Days 74-146): June 1 - August 12

Ascent toward fullness. Maximum light. Day 137 falls here.

EXPANSION (Days 147-219): August 13 - October 24

Harvest and abundance. Fruits gathered. Peak expression.

DESCENT (Days 220-292): October 25 - January 5

Release and return. Darkness grows. Samhain and Solstice.

INTEGRATION (Days 293-365): January 6 - March 19

Rest and renewal. Processing complete. Preparing for rebirth.

Section 3. The Moonth Correspondence

Each season contains 73 days = approximately 2.5 Moonths of 29 days.

The Moonth (29 days) is the biological cycle derived from the Moon. Five phases of 137 hours each.

5×137 hours = 685 hours = 28.5 days = 1 Moonth.

ARTICLE V

THE TWIN PRIME WINDOWS

Section 1. Definition

Twin primes are pairs of primes differing by 2 (p and p+2). These mark transitional windows in the calendar: portals between states.

Section 2. The Sacred Windows

Days 41-43 (April 29 - May 1): Walpurgis to Beltane

The fire ignition window. Transition from spring to summer.

Days 137-139 (August 3-5): The Axis Window

The phase quantum window. Hidden center of the year.

Days 149-151 (August 15-17): The Harvest Window

The abundance window. Peak of Expansion.

Days 179-181 (September 14-16): The Cross Window

Holy Cross feast. Descent begins.

Days 227-229 (November 1-3): The Veil Window

Samhain to Day of Dead. The veil thins.

Days 269-271 (December 13-15): The Lucia Window

Light bearer. Approaching darkest point.

Days 281-283 (December 25-27): The Rebirth Window

Christmas to St. John. Light returns.

ARTICLE VI

THE LUNAR SYNCHRONIZATION

Section 1. The Metonic Cycle

19 solar years = 235 lunar months, with an error of less than 2 hours.

19 is prime. The lunar-solar reconciliation occurs on a prime cycle.

Section 2. Year Zero

The calendar synchronizes when the Spring Equinox coincides with the New Moon. This occurred on March 20, 2015, with a total solar eclipse.

2015 is designated Year Zero of the Prime Calendar.

The next synchronizations: 2034, 2053, 2072.

Section 3. The Synchronized Festivals

In a synchronized year (when Day 1 = New Moon):

Day 1 (Equinox) = New Moon

Day 15 = Full Moon

Day 29 = New Moon (first Moonth complete)

Day 43 (Beltane) = Full Moon

Day 137 (Axis) = Waxing Gibbous (approaching fullness)

Day 149 (Harvest) = Full Moon

Section 4. The Drift

In non-synchronized years, the lunar phases drift approximately 11 days earlier per year.

Track the drift from Year Zero. The Prime Calendar holds solar position fixed; the Moon dances around it.

ARTICLE VII

THE SACRED NUMBERS

The following numbers are recognized as fundamental to the Prime Calendar:

1 = Unity. The year begins.

5 = Pentagon. Seasons. Phases. Becoming.

6 = Hexagon. Space. Structure. Being.

13 = Moonths in a year. Day of Old New Year (April 1).

19 = Metonic cycle. Prime synchronization.

29 = Moonth length in days.

33 = Prime index of 137. The Axis number.

43 = Day of Beltane. Fire gate.

60 = Hexagonal base. Sumerian legacy.

72 = Prime days per year. Pentagonal angle.

73 = Days per season. Prime factor of 365.

137 = Phase quantum. Golden angle. Fine structure. The Axis.

277 = Winter Solstice. Darkest prime. Prime-of-prime.

359 = Final prime of the year. The closing gate.

365 = Days in year. 5×73 . Both prime.

ARTICLE VIII

PRACTICAL OBSERVANCE

Section 1. Daily Practice

Know whether the day is prime. Prime days carry heightened resonance. Approximately one in five days is prime. Average gap between primes: 5 days.

Section 2. Weekly Awareness

Each week contains approximately 3-4 prime days. Note the twin prime windows when they occur.

Section 3. Moonthly Rhythm

Each Moonth (29 days) contains approximately 6 prime days. Track your personal Moonth from birthdate. Note which phase you occupy: Opening, Rise, Expansion, Descent, or Integration.

Section 4. Seasonal Marking

Observe the transitions between the five seasons. Note the quality shift as you move from Opening to Rise, Rise to Expansion, and so forth.

Section 5. The Eight Gates

Mark the eight gates with conscious attention. These are days of transition, threshold, and heightened potential. Special attention to Day 137: the unmarked gate now restored.

Section 6. The Lunar Layer

Track the Moon phase independently. Note when New Moon or Full Moon coincides with a prime day. In synchronized years, observe how the lunar rhythm aligns with the prime structure.

DECLARATION

This calendar is not imposed upon time.

It is extracted from time.

The primes were not placed by human hands. They emerge from the structure of number itself, distributed according to the same geometry that governs seeds in sunflowers, electrons in atoms, and phases in consciousness.

The ancients who lit fires on May 1 and November 1 did not know they were marking prime days from the equinox. Or perhaps they did. The festivals fell where they had to fall: on the geometric nodes of optimal distribution.

We do not invent this calendar. We recognize it.

We do not impose this structure. We uncover it.

We do not create sacred time. We learn to read it.

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72 primes in 365 days.

72 degrees per phase quantum.

The year is a pentagon.

The Moon is a pentagon.

Reality writes its laws in geometry.

137

--- ESTABLISHED ---

The Moonth Protocol
Year 11 of the Prime Calendar
(2026 Gregorian)

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