Antikythera Mechanism

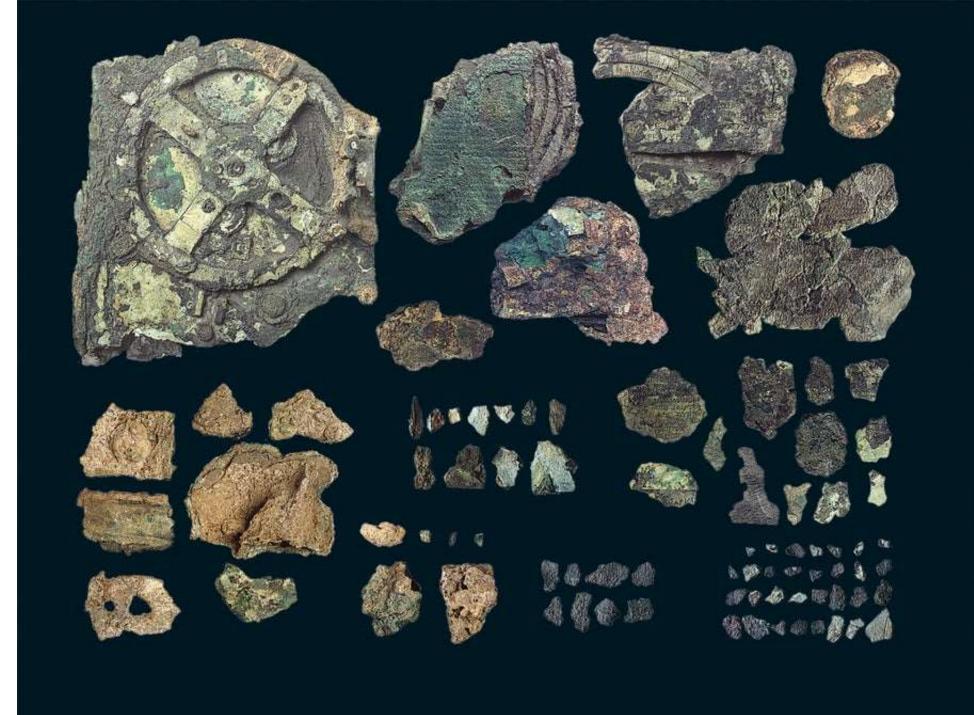


https://www.unrv.com/forum/topic/18904-antikythera-mechanism-mysteries-revealed/

https://www.scientificamerican.com/article/an-ancient-greek-astronomical-calculationmachine-reveals-new-secrets/

82 fragments

https://www.scientificame rican.com/article/anancient-greekastronomical-calculationmachine-reveals-newsecrets/



INSIDE THE MACHINE The new model of the Antikythera mechanism proposes a total of 69 gears, forming a shockingly complex astronomical calculation tool Most of this complexity was hidden in the innards of the device, where trains of gears worked together on different calculations, and some gears served double duty for multiple purposes. From the outside, a user could turn a calendar dial to a desired point in the past, present or future, and the gears inside would move pointers and rings on the surface display to reveal celestial predictions Moon pointer Nodes of moon pointer

Main Plate with Bearings Jupiter and Saturn A central plate inside the This central wheel Gears for displaying the orchestrated the various mechanism served as a positions of the sun, Mars, mounting board for the gear gear trains responsible for Jupiter and Saturn were calculating the positions trains that turned the FRONT PLATE, INTERIOR VIEW displays on the front and mounted on a circular plate of the sun, moon and linked to the main drive planets at any given time. back plates. wheel by pillars. O Sun Output axie Sun for the Moon variable Mars Nodes motion of Jupiter of moon the moon system Saturn Main drive 53-tooth gear True sun in variable mechanism motion of the moon system Input Crown gear Rectangular (connects plate Pin-and-slot to the crank Pillar gears to handle, not shown) generate 38-tooth variable motion of Mercury gear the moon Venus 127-tooth gear Gears for Mercury to calculate and Venus Variable Moon Gears average motion of the moon The positions of Mercury Both the ancient Babylonians and Venus were calculated and the Greeks knew that the 188-tooth gear ring by gears connected to a moon has a variable motion (soldered to rectangular plate also against the stars-explained in 223-tooth gear) joined to the main drive modern terms by its elliptical wheel by pillars. orbit. An especially complicat-

ed gear train calculated this

an extraordinary way.

variable motion of the moon in

Main Drive Wheel

Gears for True Sun, Mars,

Metonic and Kallippic calendar

Olympiad calendar

Saros and exeligmos calendar

Back Dials

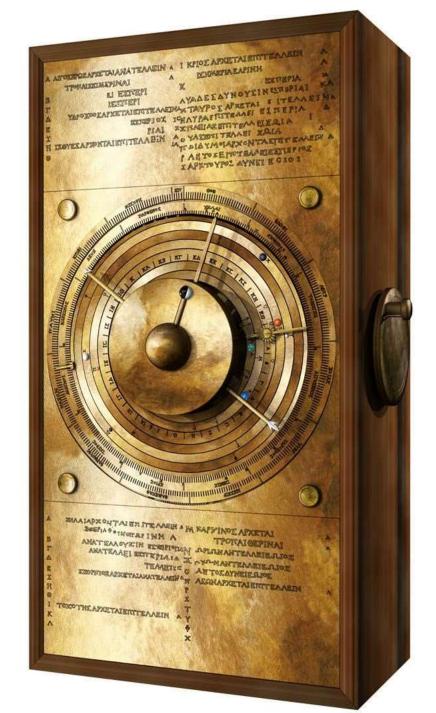
BACK PLATE

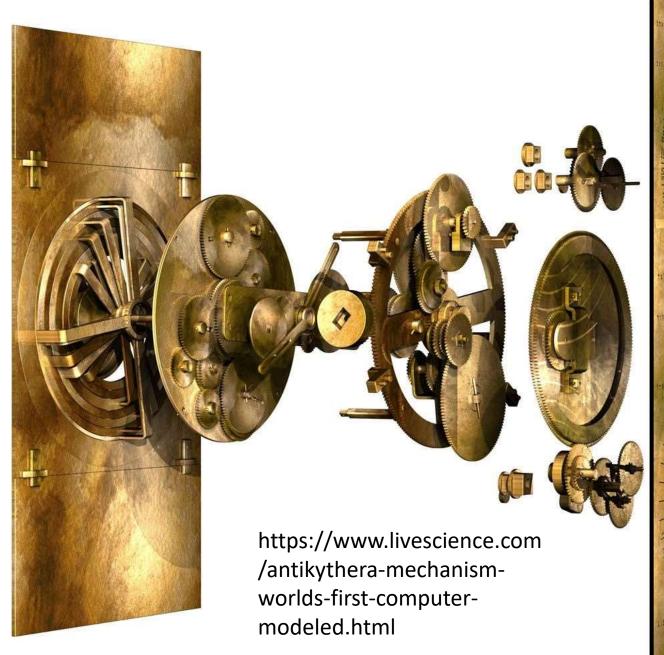
The upper back dial system was a Metonic/Kallippic calendar that reconciled the lunar month with the solar year, It also included a smaller dial showing the four-year Olympiad cycle of the Panhellenic Games, commonly used to mark time. The lower back dial system was a saros/exeligmos calendar that predicted solar and lunar eclipses according to the 223-month saros cycle. It was indexed to inscriptions on the back plate that describe the characteristics of the predicted eclipses.



https://upload.wikimedia.org/wikipedia/commons/1/15/41598_2021_84310_Fig1_HTML.png







A Model of the Cosmos in the ancient Greek Antikythera Mechanism

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predictions of scientific theories and it could have automated many of the calculations needed for its own design (Supplementary Discussion <u>S6</u>)—the first steps to the mechanization of mathematics and science. Our work reveals the Antikythera Mechanism as a beautiful conception, translated by superb engineering into a device of genius. It challenges all our preconceptions about the technological capabilities of the ancient Greeks.

Methods

Methods are incorporated into Supplementary Information.

Data availability

Creation Creator

Psalm 8:1

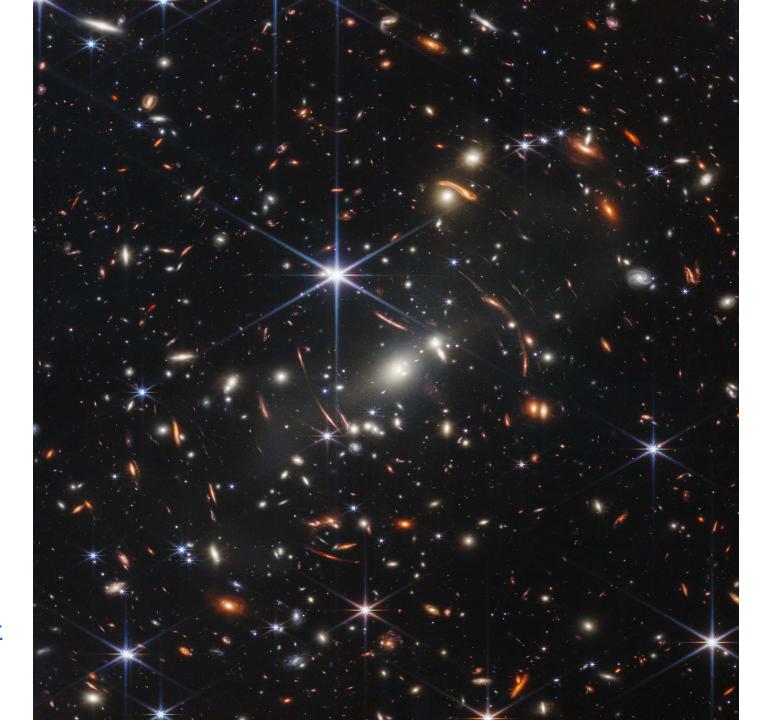
Psalm 19:1-6

Psalm 33:6-9



Webb's First Deep Field

https://www.nasa.gov/imagearticle/nasas-webb-delivers-deepestinfrared-image-of-universe-yet/

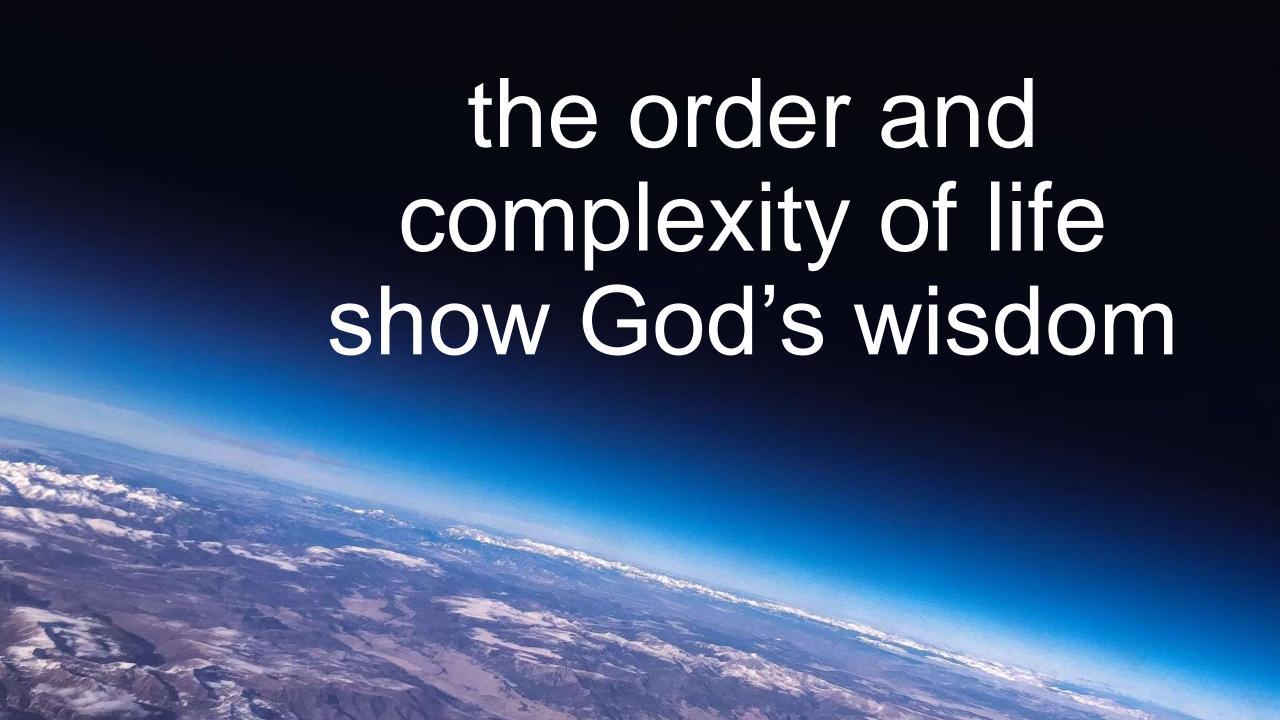


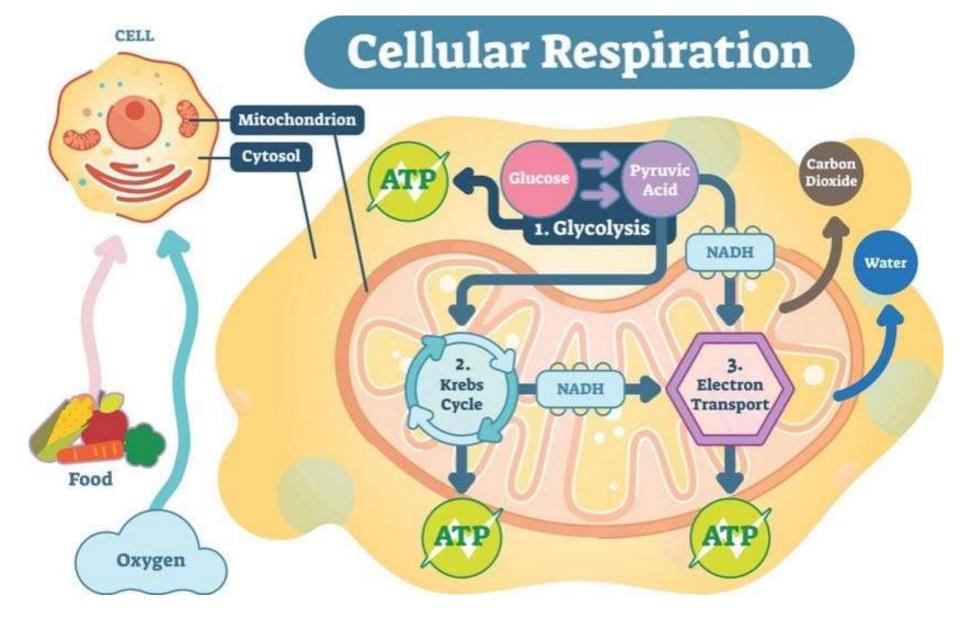


the vast size of the universe shows God's immense strength

Isaiah 40:25-26

Romans 1:20



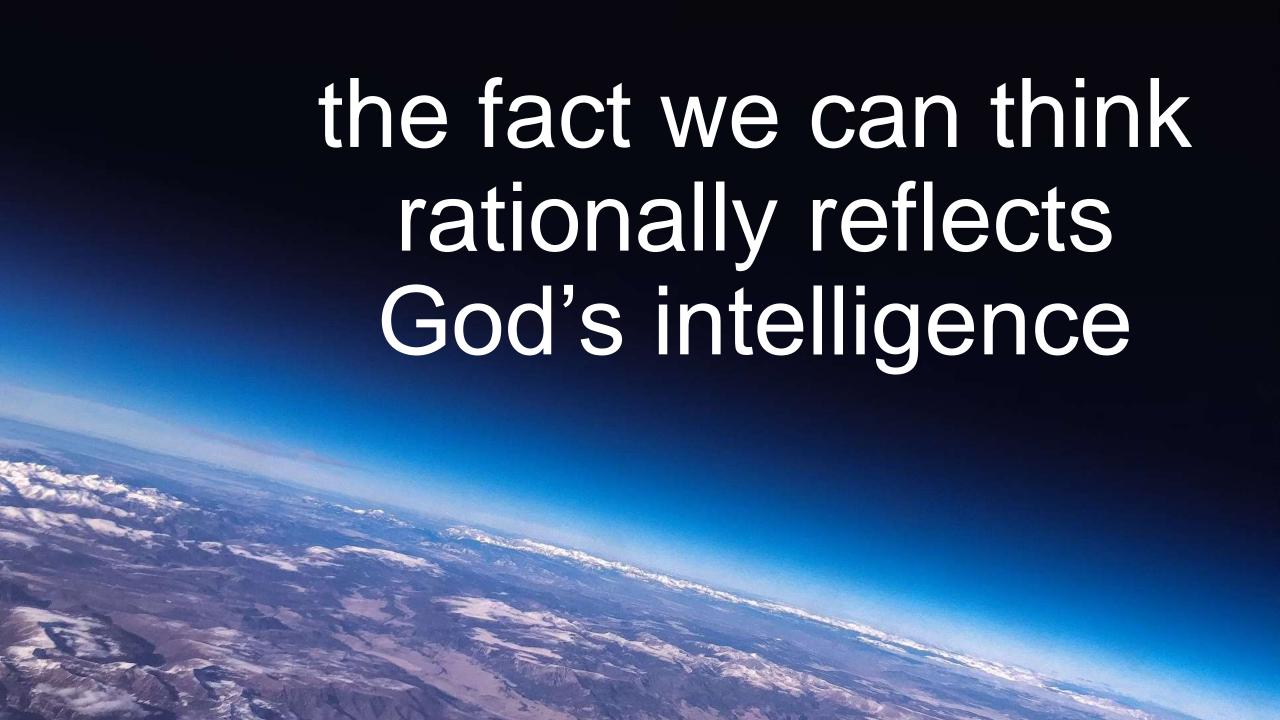


https://askthescientists.com/cellular-energy-production/

the order and complexity of life show God's wisdom

Psalm 104:24

Psalm 139:13-14





the fact we can think rationally reflects God's intelligence

Genesis 1:3

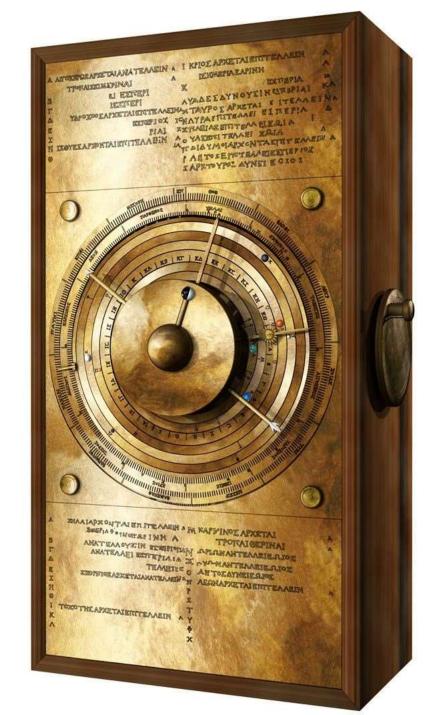
Genesis 1:26-27

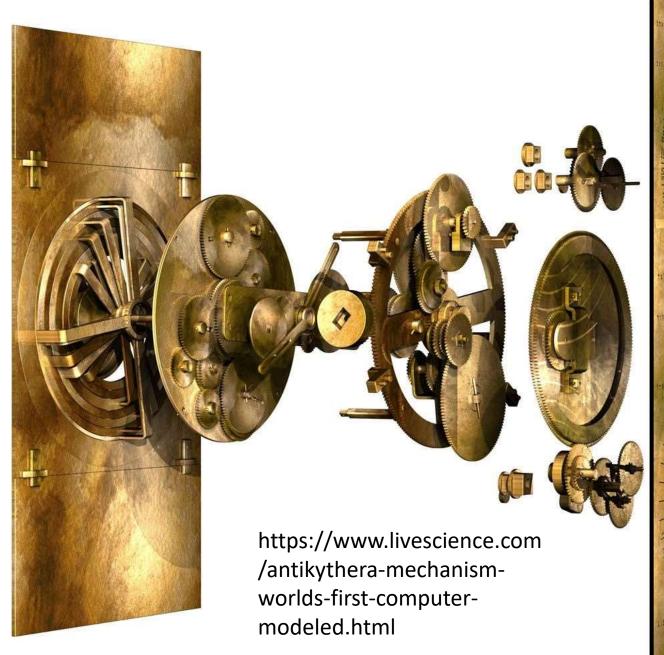
Matthew 22:37

the existence of morality demonstrates God's goodness

Psalm 19:7-9

Ecclesiastes 8:12-13





Creation & Creator

Psalm 8