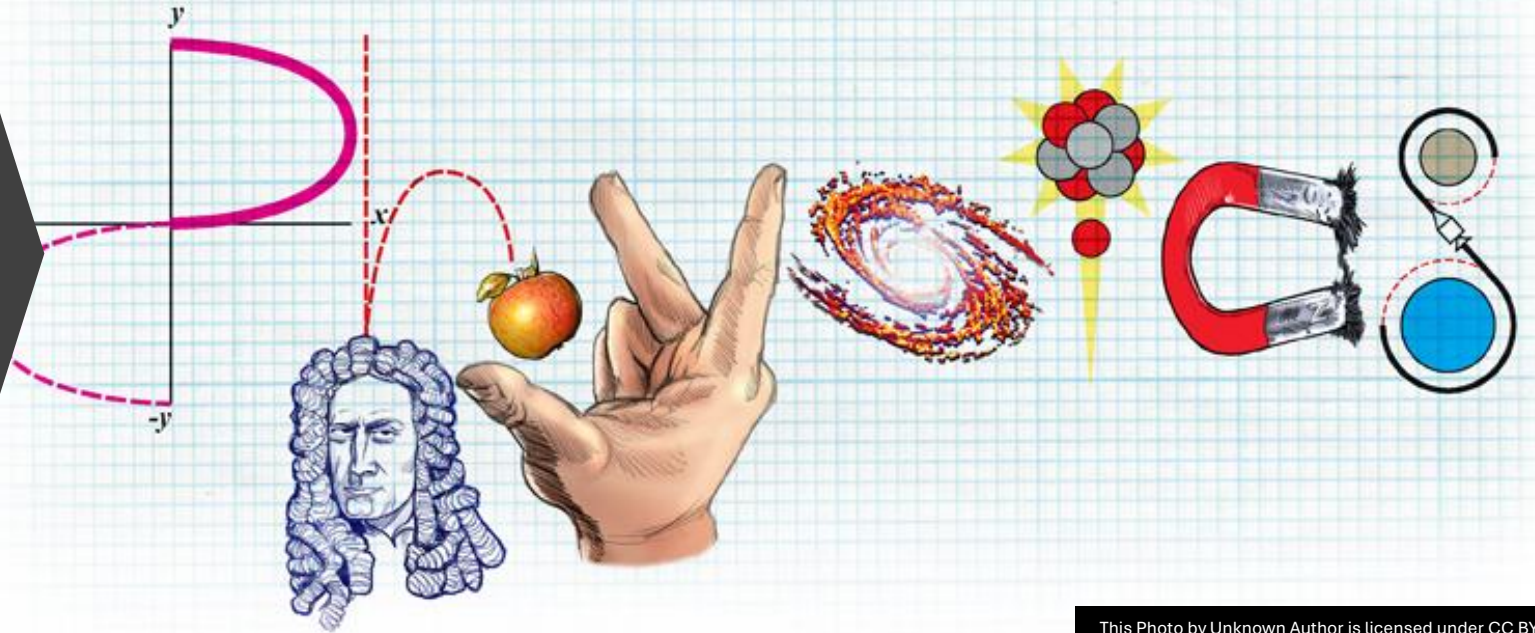


# SURVIVAL SCIENCE

## LESSON 6A

### OUR PHYSICS TIMELINE



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## INVENTIONS THROUGH TIME

# WHAT IF YOU...

...were facing a giant task, too big for your own strength, but certain that the task was yours to overcome?

**Could you draw on past experiences, knowing God was the true source of your victory?**

**Would you be willing to TAKE on the task?**





# “David COULD & DID

- 1 Samuel 16 “Rise and anoint him; this is the one.” NIV
- Samuel finds and anoints David as the future king.
- A shepherd boy, Tribe of Judah
- Must kill Goliath in combat to show His God’s power over the Phillistine army, to defend Israel



DAVID A YOUNG SHEPHERD BOY



# David to Jesus ~1000 years...

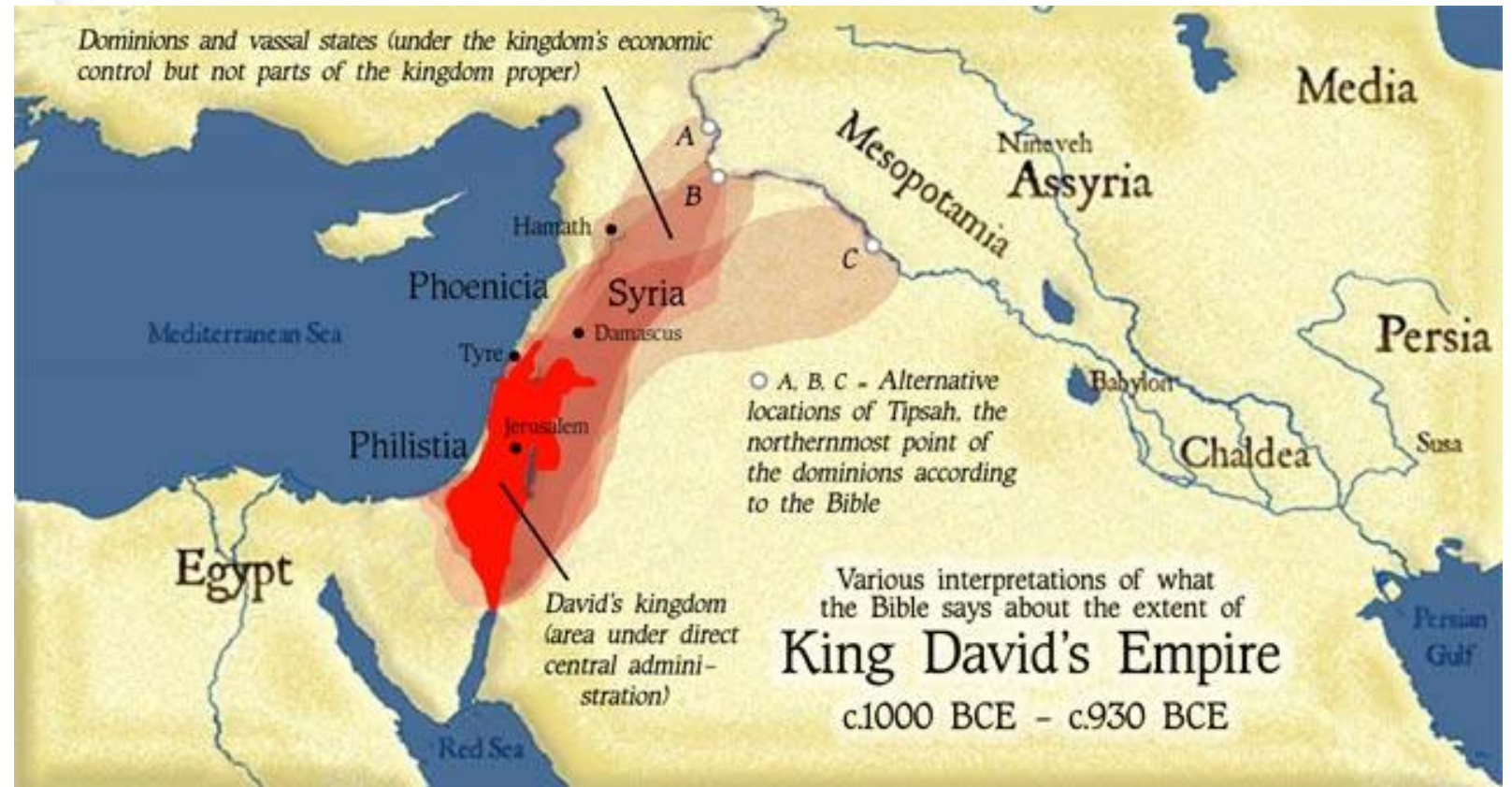
## **SIMPLIFIED, ROUNDED TO NEAREST ½ MILLENNIUM**

Noah's Life to the Flood	~500 yrs
From Noah to Babel	~500 yrs
From Babel to Abram	~500 yrs
From Abraham to Moses	~500 yrs
From Moses to David	~500 yrs
From David to Captivity	~500 yrs
From Babylonian Captivity to Jesus	~500 yrs



# David's Reign

- The regions under Israel's rule include all the red, and to various extents all the brown regions.
- Solomon's control was slightly larger





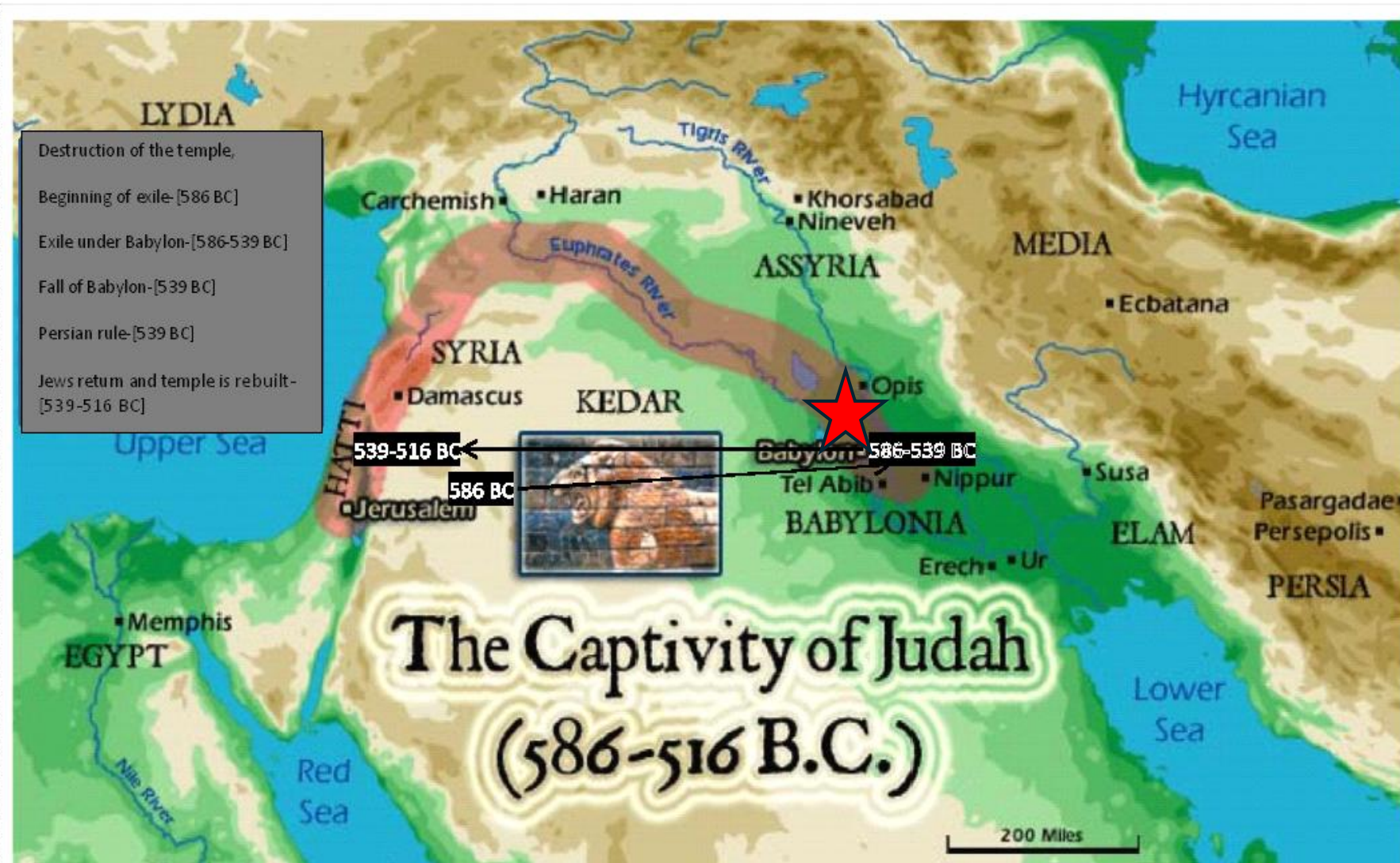
Solomon builds the TEMPLE (~950 BC) after David Dies





## THE CLASSICAL AGE BEGINS (~750 BC – 450 AD)





## Babylonian Captivity Ends 516 BC

Prior to the Fall  
of Babylon

Judah was exiled  
586-516 BC

Some were left  
behind in Israel's  
homeland.



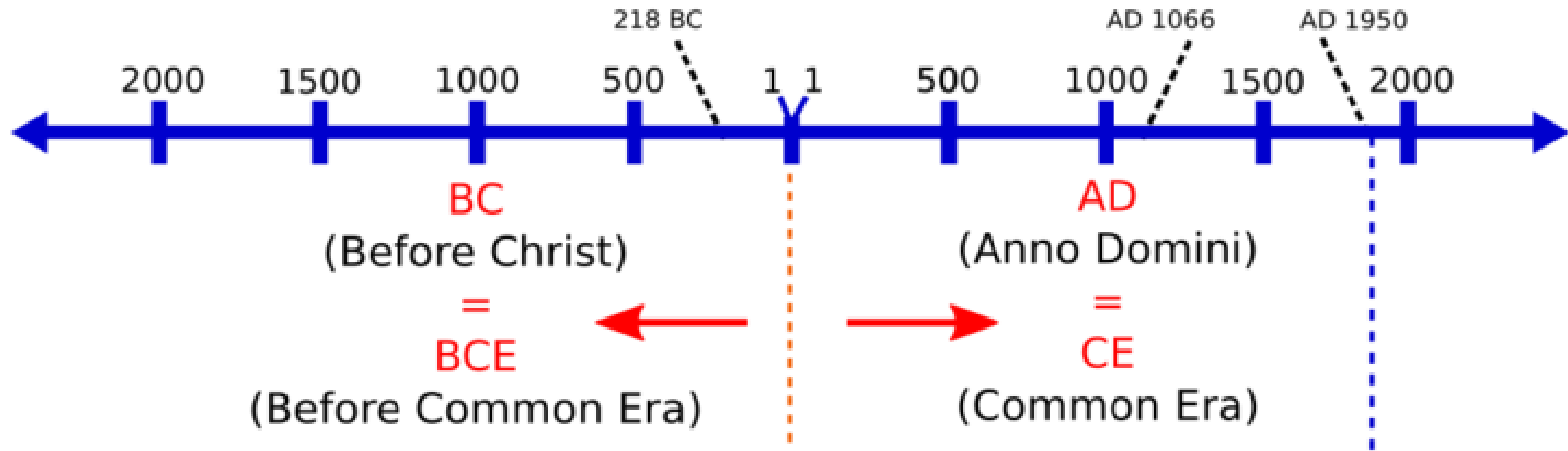
# Israel's Presence Remains Strong... Mesopotamia's Powers Diminishes in Influence.



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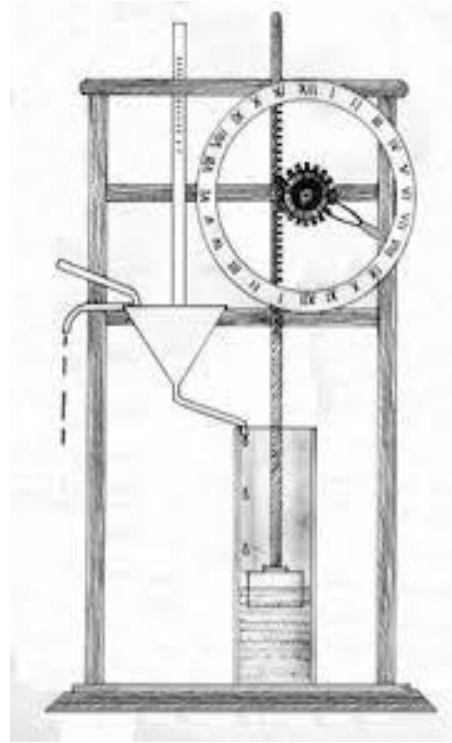
## BC - BCE and AD - CE Terms



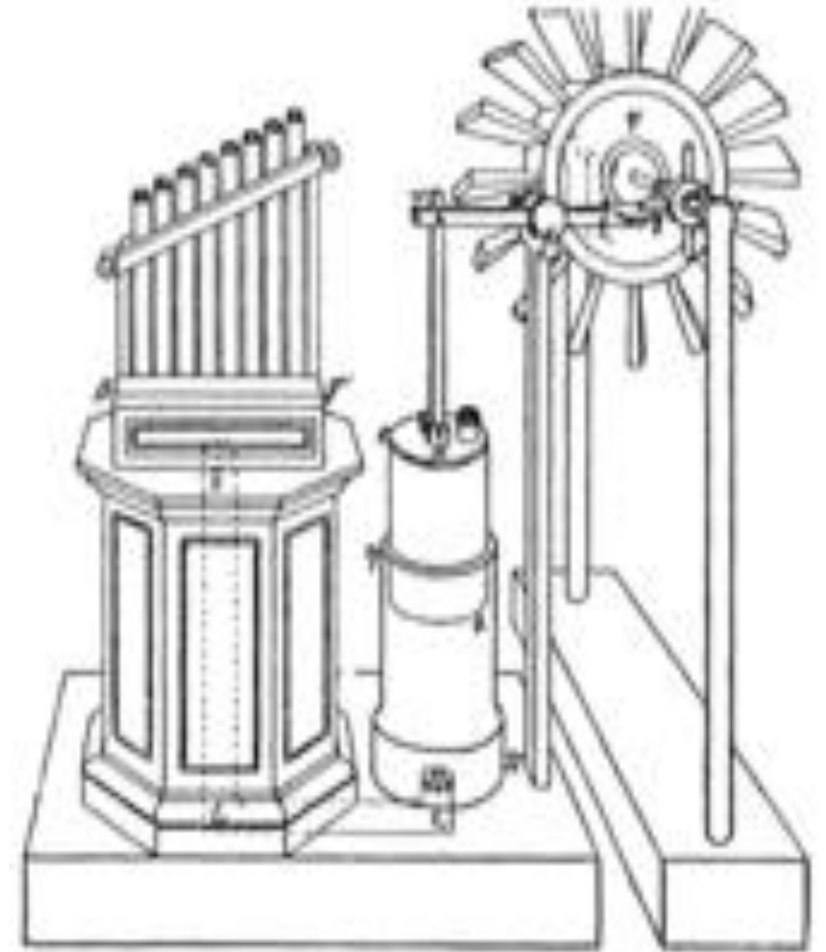
A NEW BEGINNING... A NEW TIMELINE



# SIMPLE TOOLS



Water clocks with alarms, wind and water organs, odometers, parchment and battering rams.



# First came Warfare...

---

- WARS & WARRIORS
- ARMOR, METAL WEAPONS
- WARSHIPS
- CHARIOTS
- BATTERING RAMS
- CATAPULTS WITH METAL, FIRE, OR STONE PAYLOADS



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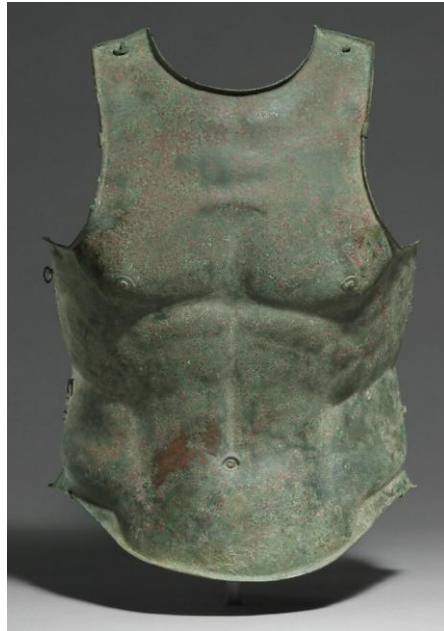


## Naval Warfare and Battle Gear — Battering Rams

The Romans gain strength against neighboring empires with impressive battleships (speed and ramming techniques).

Many armies employed battering rams to storm cities and defeat other nations.

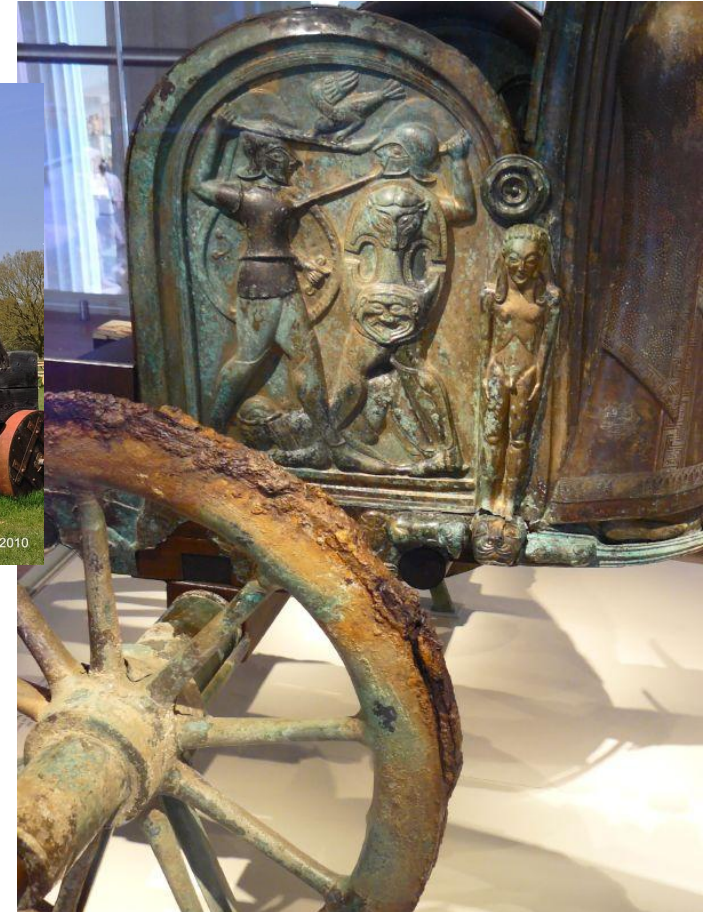
# Armor, Shields, & Chariots increased with the improved smelting processes



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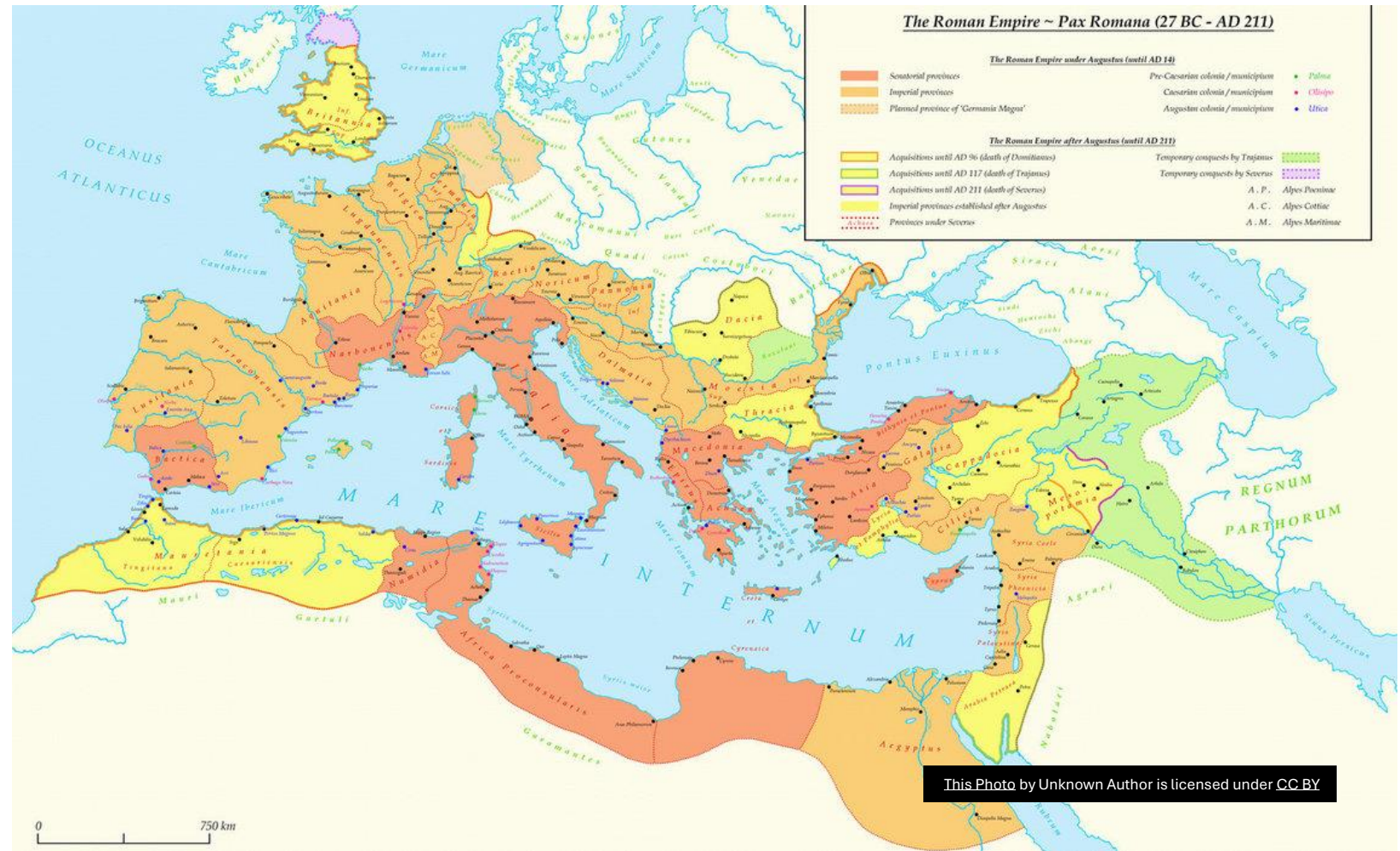


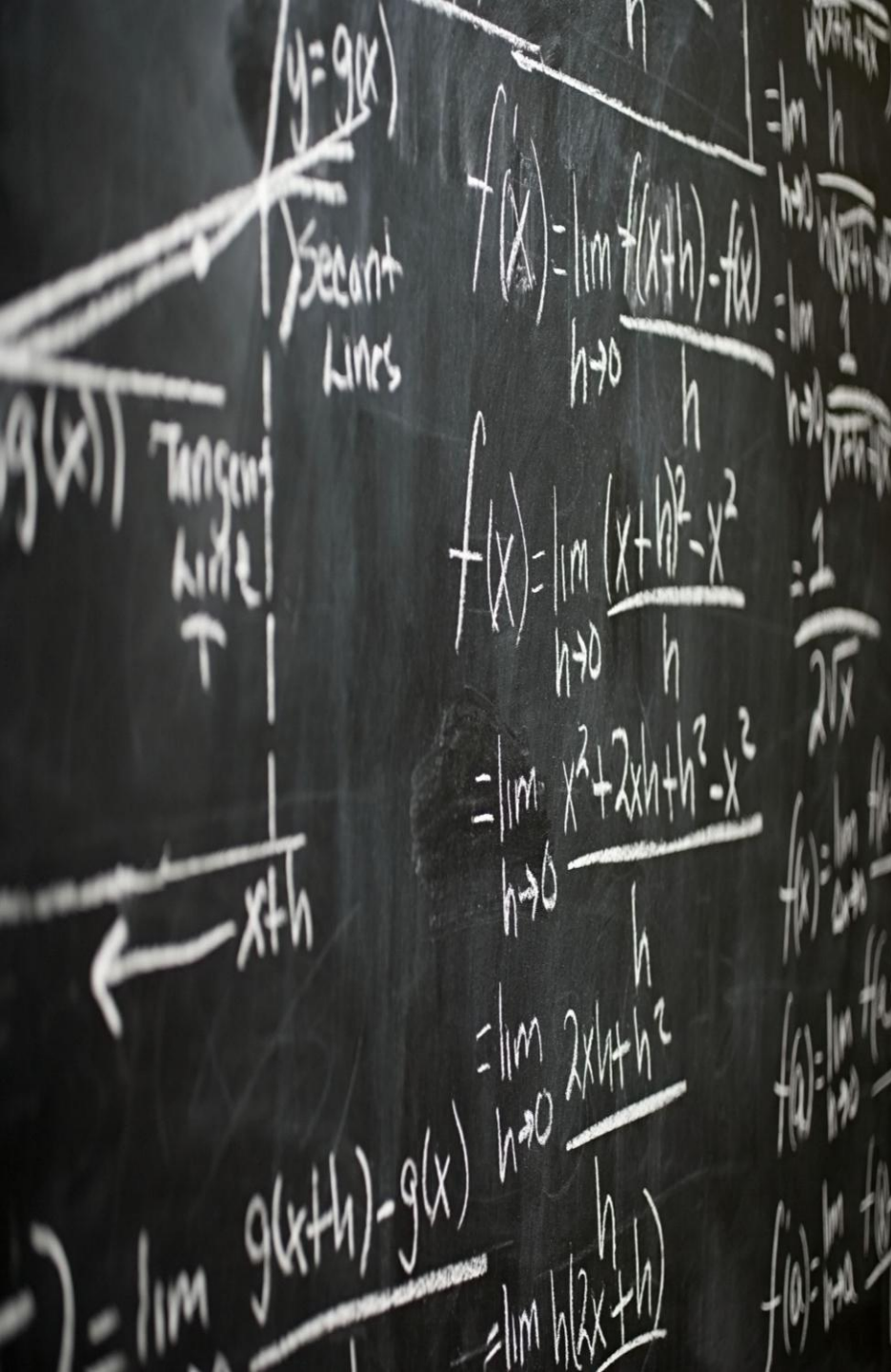
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# Then came Peace...

- Rome wins power
- Pax Romana
- Strong influence from Greek, Roman, and Egyptian Academics in a realm of freedom
- Religious freedom as long as it submits to Roman governance





# SCIENCE AND MATHEMATICS

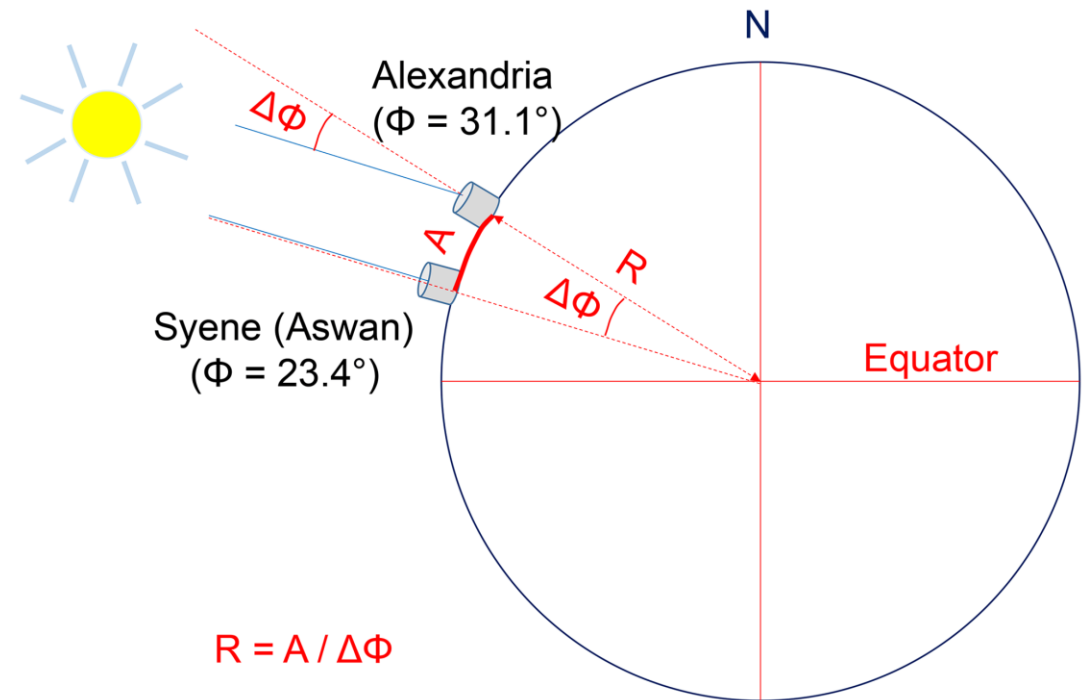
- ASTRONOMY BECOMES 1<sup>ST</sup> SCIENTIFIC PURSUIT (TRIGONOMETRY WAS ESSENTIAL)
- MAKING PREDICTIONS (A COMMON PRACTICE IN SCIENCE AND, IMPROPERLY, IN ASTROLOGY)
  - Science makes predictions to test them
  - Astrology makes predictions about behavior, events, actions with no connection to cause and effect
- MATHEMATICS BEGINS TO FLOURISH



# Calculating the circumference of Earth with Math/Trigonometry and SOLAR SHADOWS



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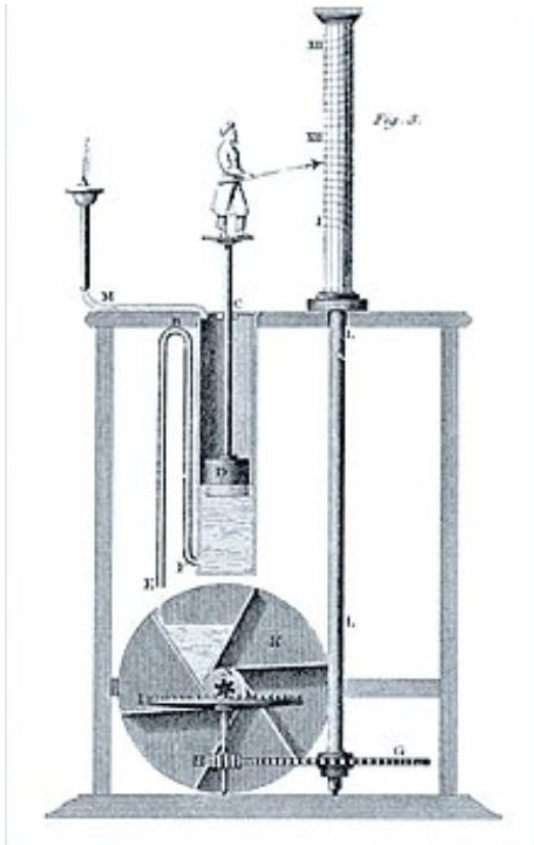


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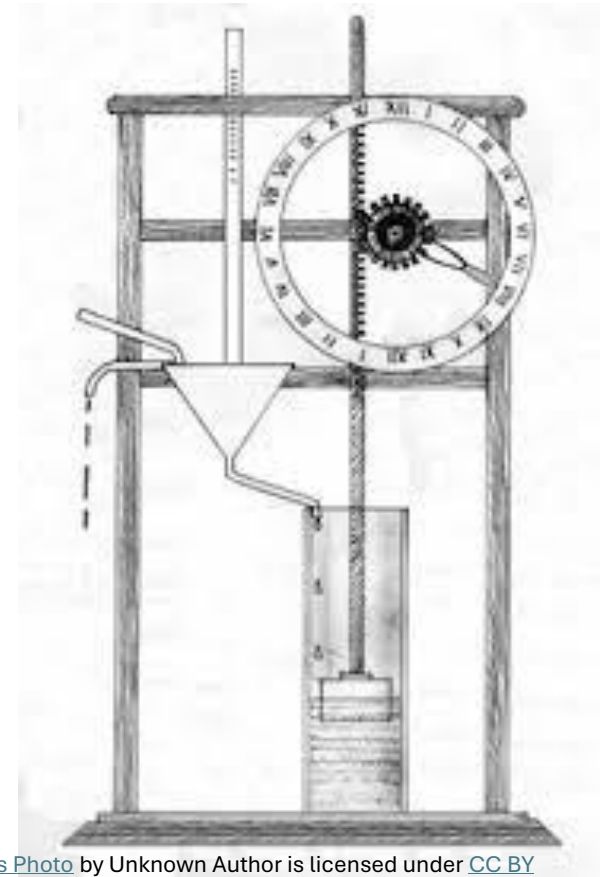
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# TIMEKEEPERS – STARS, OBSERVATORIES, SUNDIALS, CLOCKS, AND ASTRONOMERS

**THE 1<sup>ST</sup> SCIENTISTS:**  
**WERE ASTRONOMERS**  
**WERE THE TIMEKEEPERS**  
**WERE THE EDUCATED ELITES**



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# The Wisemen of Jesus' Visitation

- Were most likely astronomers understanding the motion of planets, stars, and celestial phenomenon
- Were from the Mesopotamian region (Medes/Persians) and
- Were called magi meaning they were powerful and well-known
- Were praised by Greek historians known for their wisdom and knowledge of the stars





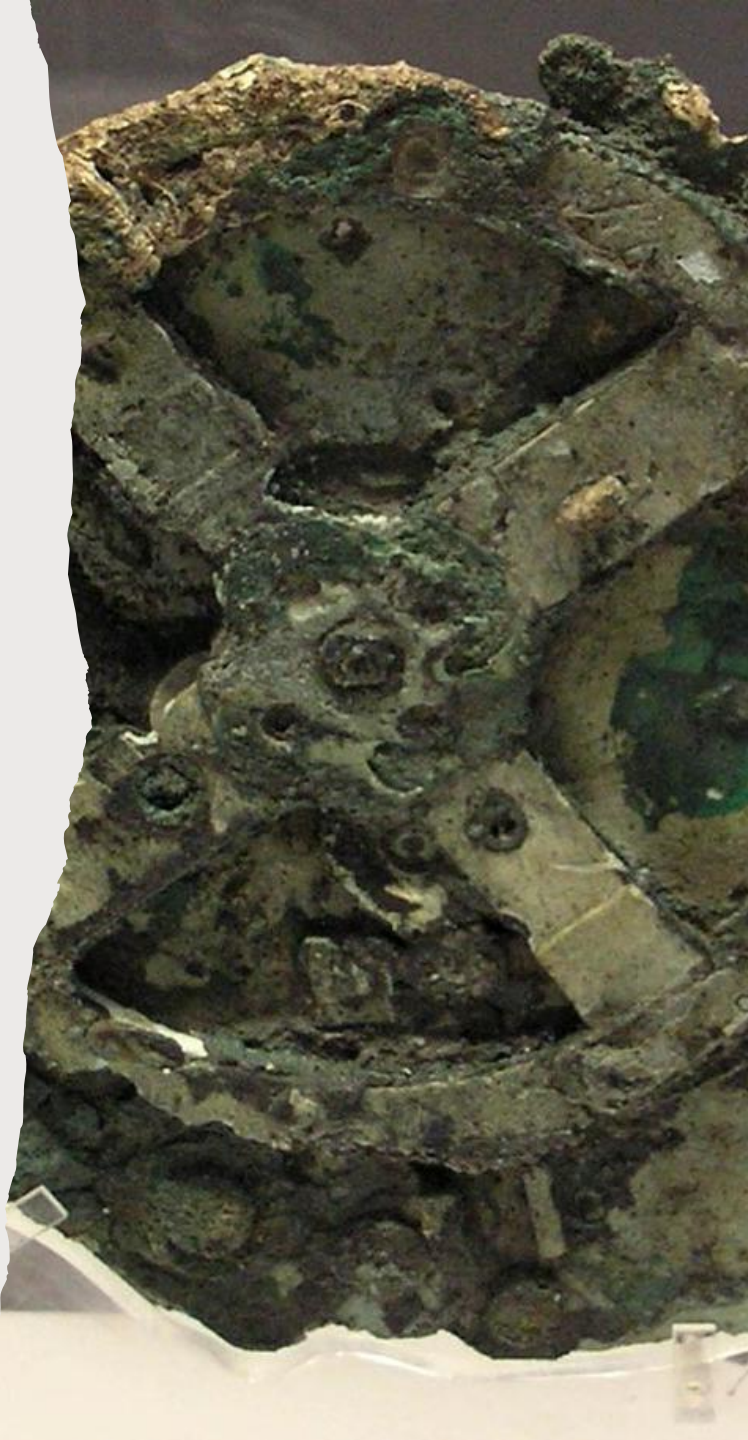
## An Orrery 200-100 BC

### The earliest geared analog computer

Scans suggest that the mechanism had 37 meshing bronze gears enabling it to follow the movements of the Moon and the Sun through the zodiac, to predict eclipses and to model the irregular orbit of the Moon, where the Moon's velocity is higher in its perigee than in its apogee.

**Left – an actual orrery from a shipwreck**

**Right – a recreation of the orrery with plexiglass rather than wood to expose the gears.**





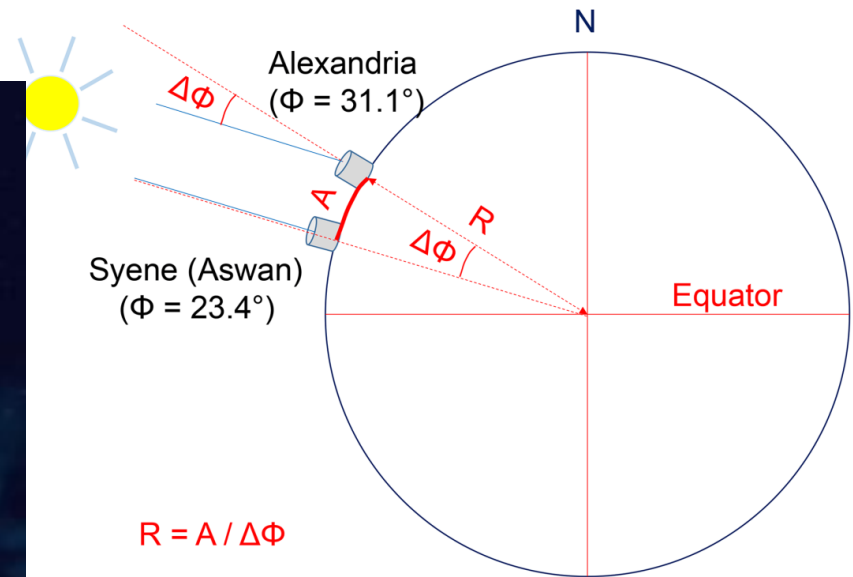
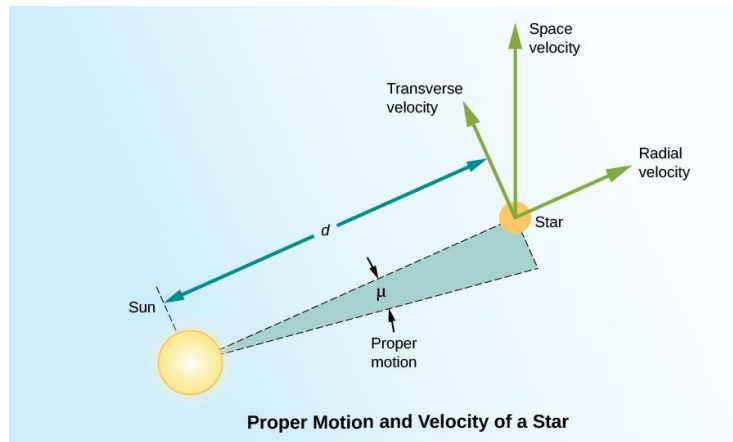
# Ctesibius' Clepsydra - A 12-hr Timekeeper

## Third Century BC

- A clepsydra, also known as a water clock, is an ancient timekeeping device that measures time by the regulated flow of liquid into or out of a vessel. The amount of liquid can then be measured to indicate the passage of time.
- Note the 12 metal bands and the figurine pointing to the time band. As the water level rises, so too the figurine rises.



# Astronomers determine star positions, planetary motion, and the circumference of Earth using Math/Trigonometry

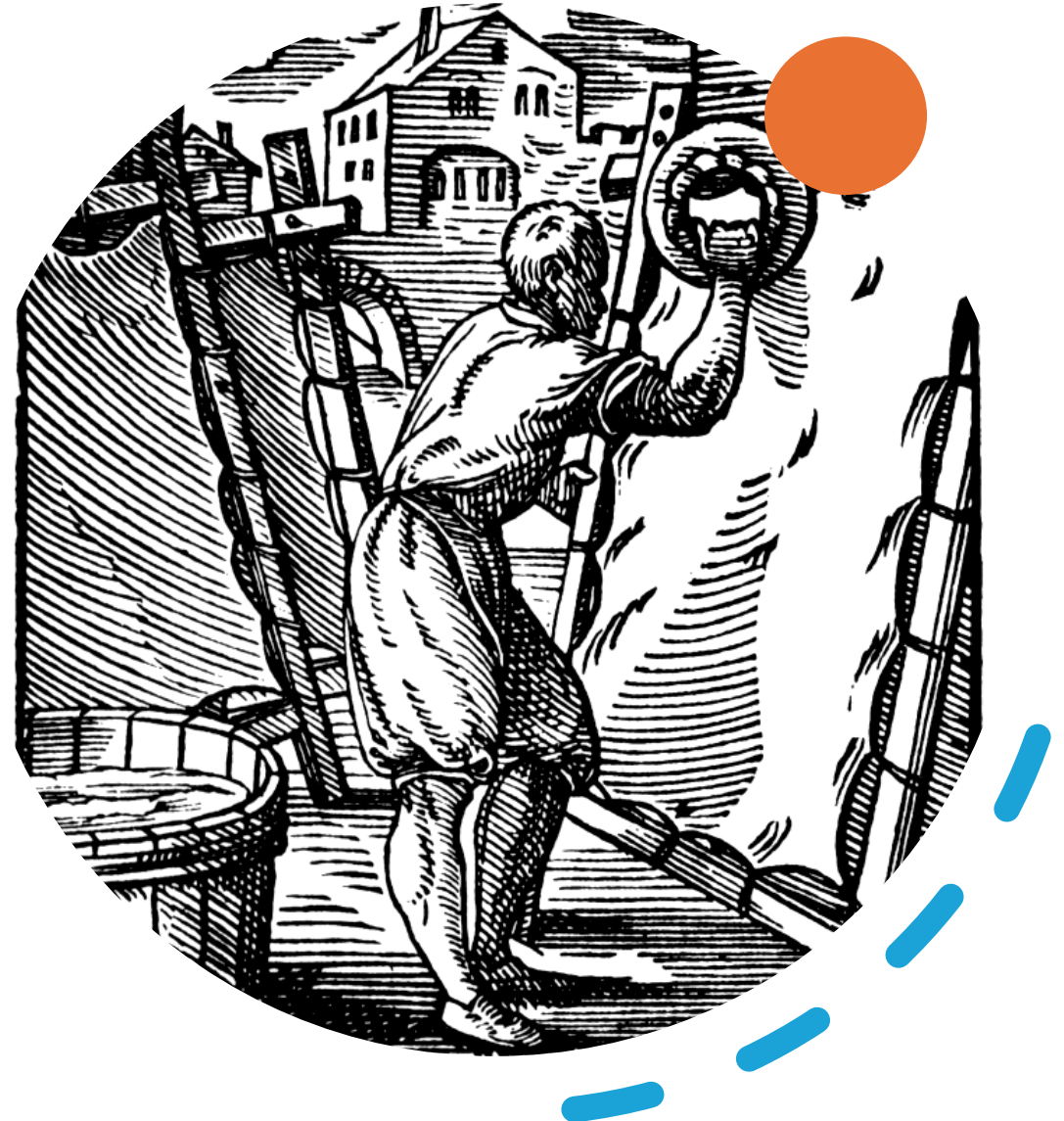


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# Parchment replaced papyrus

- Created around ~300 BC
- Used extensively by Hebrew scribes
- Preserved better than papyrus
- The Dead Sea Scrolls 300 BC – 100 AD were primarily on parchment



# GOD'S WORD PRESERVED

The Scriptures are “**SELF-EVIDENT**” able to prove the TRUTH within.

- 1. God's Character
- 2. Claims of Divine Authorship
- 3. Unity of the Bible
- 4. Fulfilled Prophecy
- 5. Scientific Accuracy
- 6. Archaeological Finds
- 7. Life-Changing Power

Answers in Genesis links



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# Self-Evidence Similarity – Science & Scripture

---

- In science, self-evident scientific laws are those that are generally considered fundamental and widely accepted, often based on a strong body of evidence and theoretical consistency, demonstrable that do not involve extensive reasoning.
- In the scriptures, self-evident principles include:
  - **Obviousness:** They are generally understood to be true by anyone who understands the relevant concepts , including the **prophecies**.
  - **Foundation for Further Knowledge:** They serve as a starting point and foundation for more complex spiritual ideas, as well as intellectual, emotional, and physical.
  - **Universality:** They apply across different moral, ethical, intellectual, cultural, and spiritual domains. They impact people of all walks of life.
  - **Miraculous proof:** (not required) Against all odds, against physical laws, against the common fallacies of the times, the scriptures remain the source of abundant life.





# Dead Sea Scrolls

- Found in the 1940's-1950's
- Best preserved, most abundant, writings from antiquity (primarily hidden by the Jewish Essenes Sect) – Why?



# In the fullness of time...

This statement implies **GOD’S timing**. God knew what the world’s culture would be like at the time Jesus was on earth. It was a time of peace and stability (Pax Romana). Jesus, his disciples, and the early church traveled, taught, and carried out their mission to reach the world relatively safely.

Scriptures record the greatest story ever known to man – God in flesh, came to earth, to bring new life! Both the Old and New Testaments, written on new parchment, revealed God’s Word to His people.

## Pax Romana, Roman Roads & Parchment



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# REMEMBER THESE THINGS



Nothing in history compares to the brief time that separates the Age of Promise (BC) from the Age of Fulfillment (AD - aka the Church Age). These brief years of Christ's time on earth changed everything. We may struggle, we may have to fight a war, but we have already won the victory. As Christians, life is no longer defined by what happens to us or what we accomplish, but who we are in Him. The more we embrace Him, the gift, the more fulfilling life will be even in the midst of suffering.

**Ephesians 2:8-9** *For by grace are ye saved through faith; and that not of yourselves: it is the gift of God: <sup>9</sup>Not of works, lest any man should boast.*