RECORDING THIS SESSION

WELCOME BACK, JUNIORS!!

BIBLE STUDY - YEAR 3

RE- Introduction to Bible Study
Faith and Science
Genesis 1 - 2

Prayer of Pope St. Clement 1 in his letter to the Corinthians (§60-61)
From LOH, Office of Readings, Week 1 OT

The Word of God on high, fountain of wisdom,

Lord, you created the world according to the eternal decree now revealed in your works. Faithful throughout all generations, you are just in judgment, wonderful in power and majesty.

You formed your creation with wisdom, established it with prudence. Everything we see proclaims your goodness.

You are kind and compassionate, and never fail those who put their trust in you. Forgive us for our failings and for our sins.

Do not hold all the transgressions of your servants against them, but purify us by your truth, and so guide our footsteps that by walking in holiness and justice and simplicity of heart we may do what is good and pleasing in your sight and in the sight of our leaders.

Lord, *let the light of your face shine upon us, so that we may enjoy your blessings* in peace, protected by your strong hand, and freed from all sin by your outstretched arm; and deliver us from those who hate us unjustly.

Give peace and concord to us and to all mankind, even as you gave it to our ancestors *when they devoutly called upon you in faith and truth*.

Lord, you alone are able to bestow these and even greater benefits upon us.

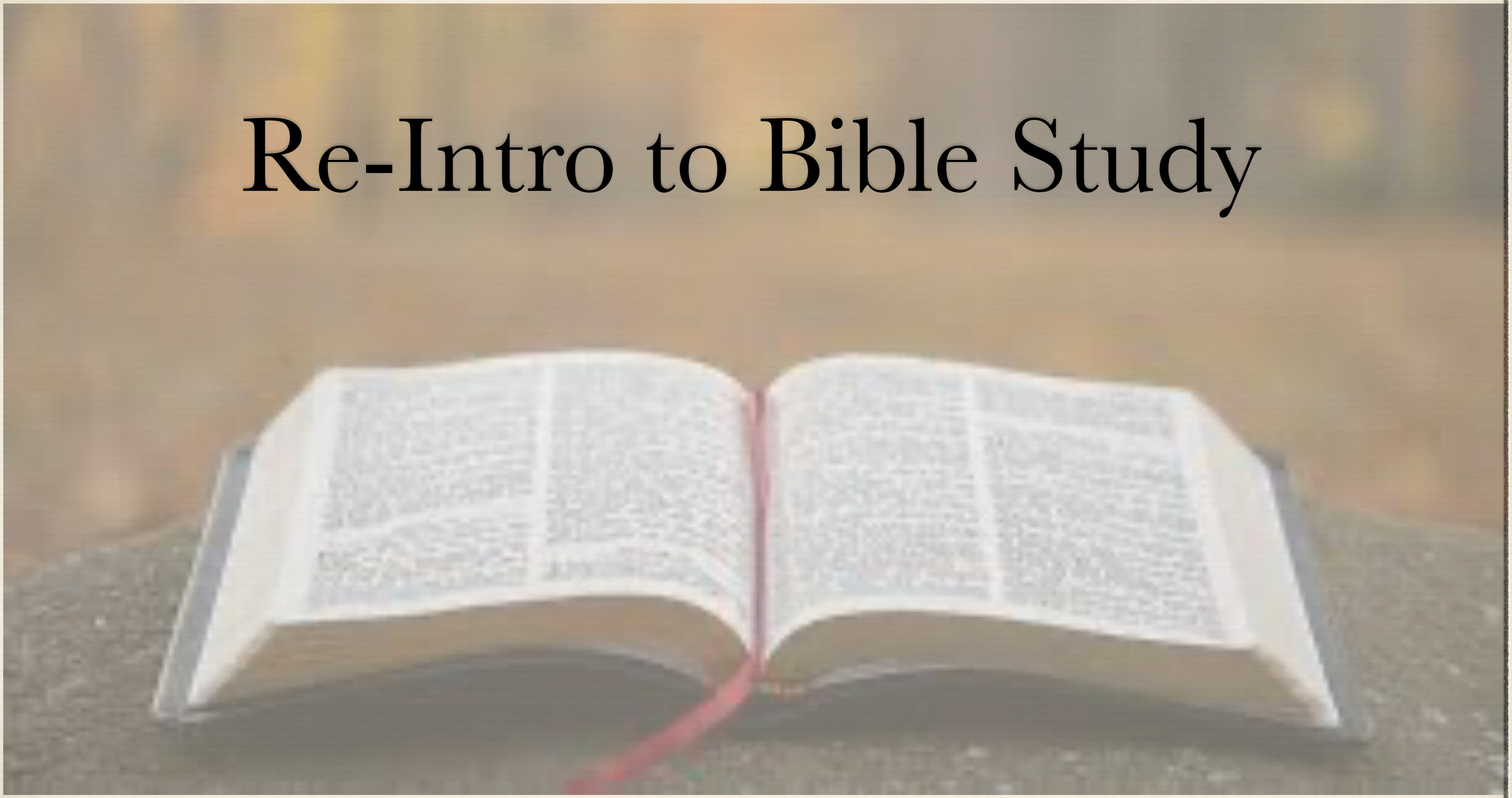
We praise you through Jesus Christ, our high priest and the champion of our souls. Through him be glory and majesty to you now and throughout all generations, for ever and ever. Amen.

Respectfully Ask:

- No political comments
- No statement about a political candidate or party
- No promotion/criticism of a political candidate or party
- No promotion of any political ideology
- No discussion of any controversial / political issues of the day
- No promotion of any political websites
- Or anything else along these lines

https://commons.wikimedia.org/wiki/File:Jesus_love.jpg

Re-Intro to Bible Study



Prior to Vatican II, Catholics were not encouraged to read and study Scripture on their own.

However, the value of personal and group Bible studies were proven through the Protestants.

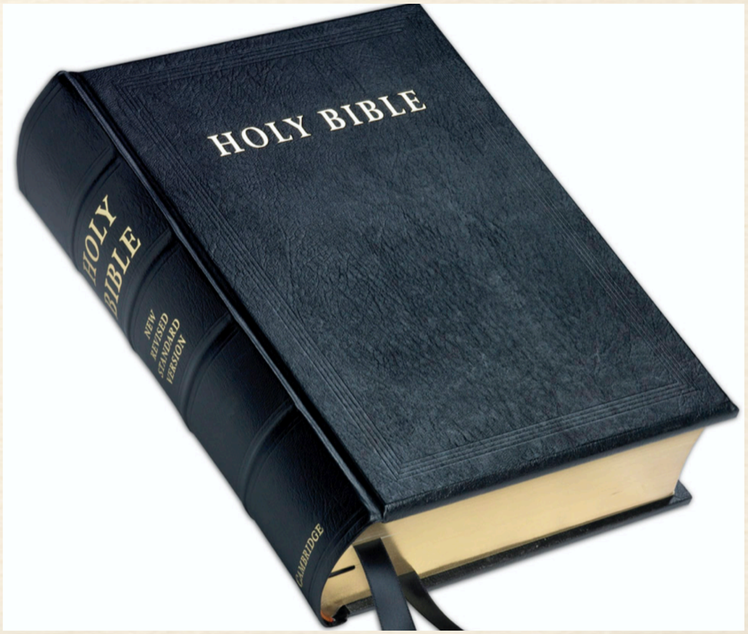
But now:

Pope Francis challenged us “to follow in Jesus’ footsteps and face the spiritual combat against the Evil One with the strength of the Word of God. Not with our word, which is useless. The Word of God: that which has the strength to defeat Satan. **Therefore, it is necessary to draw confidence from the Bible: to read it often, meditate on it and assimilate it. The Bible contains the Word of God, which is always timely and effective.** Someone said: what would happen if we treated the Bible as we treat our mobile phone? If we always carried it with us, or at least a small pocket Bible, what would happen? If we went back when we forgot it: you forgot your mobile phone – O, I don’t have it, I’ll go back to find it; if we opened it several times a day; what would happen if we read God’s messages contained in the Bible as we read our phone messages? The paragon is clearly paradoxical, but it makes us reflect. In fact, if we had the Word of God always in the heart, no temptation would be able to estrange us from God and no obstacle would be able to make us deviate from the path of goodness; we would be able to overcome the daily suggestions of evil that are in us and outside of us; we would be more capable of living a resurrected life according to the Spirit, receiving and loving our brothers, especially the weakest and neediest, and also our enemies.”

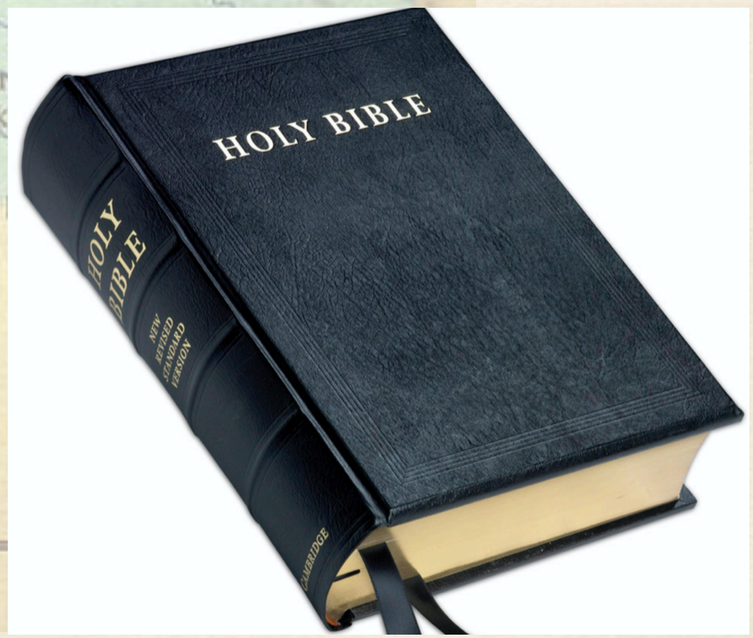
- from The Angelus speech, at St. Peter’s Square, March 5, 2017

Bible did not drop from the sky

- Bible = *biblia* = books
  - many books = 73
- written by more than 40 authors
- written by people of different backgrounds



- events - 3 continents (Asia, Europe, and Africa)
- earliest parts written > 2700 yr ago
- written over a 1000 year period
- tells a story of consistent story of salvation
- canonized Council (synod) of Hippo 393 AD
- Reaffirmed at Council of Trent
  - 1545 - 1563
- >100 million copies sold each year



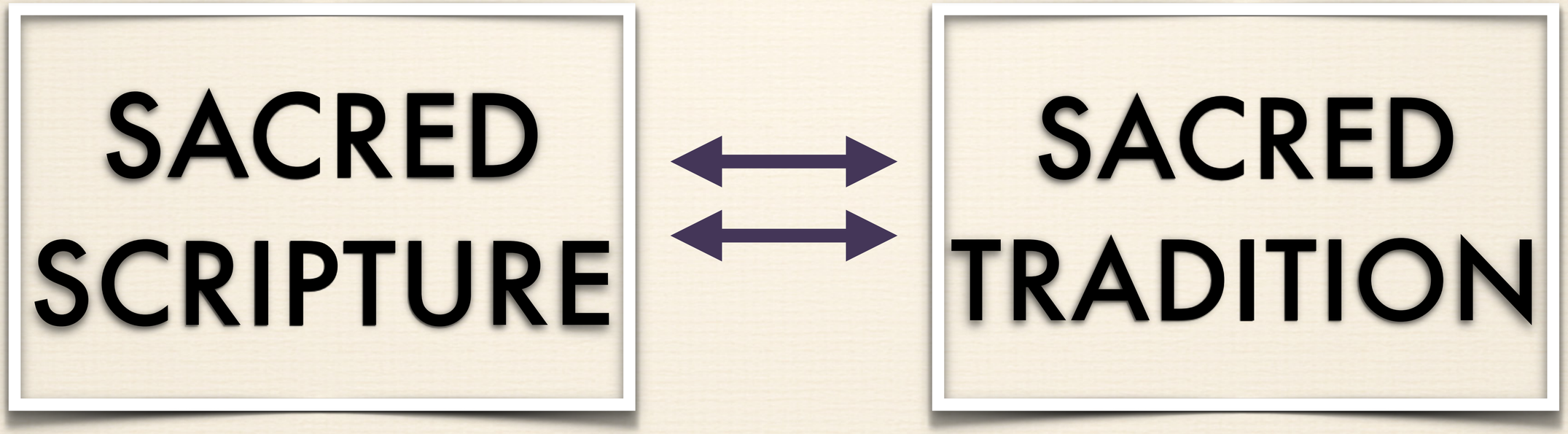
“Jesus performed many other signs in the presence of his disciples, which are not recorded in this book. But these are written that you may believe that Jesus is the Messiah, the Son of God, and that by believing you may have life in his name.” (John 20:30-31) [LRB 2226]

“It is this disciple who testifies to these things and has written them, and we know that his testimony is true. There are also many other things that Jesus did, but if these were to be described individually, I do not think the whole world would contain the books that would be written.” (John 21:24-25) [LRB 2228]

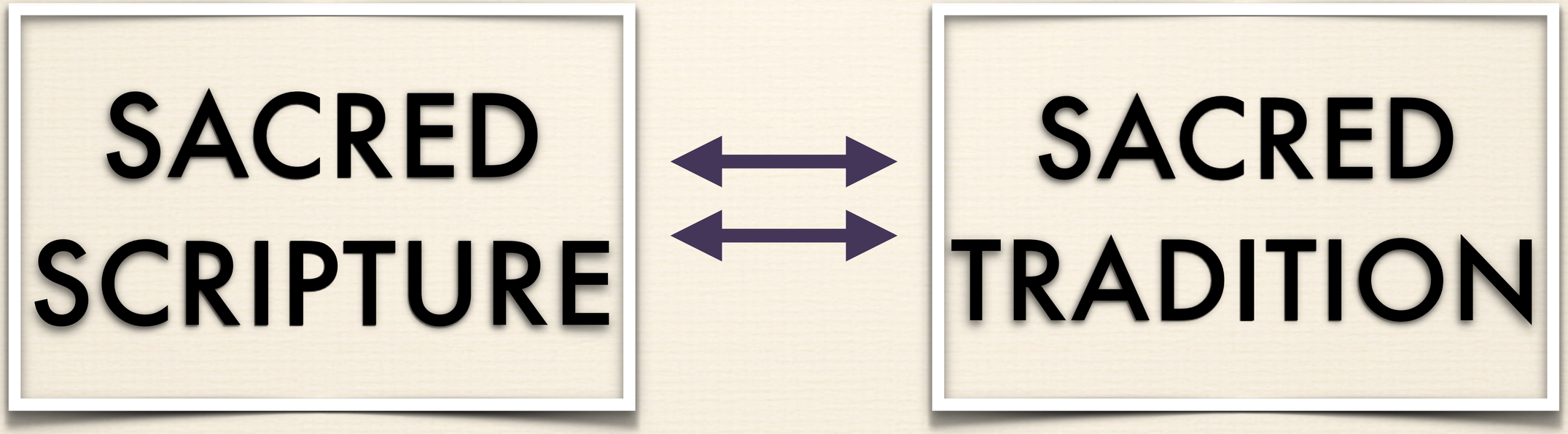
Paul wrote: 2 Thessalonians 2:15 [LRB 2446]-

> "…stand firm and hold fast to the traditions that you were taught, either by an oral statement **or** by a letter of ours."

CCC §97, "Sacred Tradition and Sacred Scripture make up a single sacred deposit of the Word of God" (DV §10) in which, as in a mirror, the pilgrim Church contemplates God, the source of all her riches.



...there exists a close connection and communication between Sacred Tradition and Sacred Scripture. For both of them, flowing from the same divine wellspring, in a certain way merge into a unity and tend toward the same end... Consequently it is not from Sacred Scripture alone that the Church draws her certainty about everything which has been revealed. Therefore both Sacred Tradition and Sacred Scripture are to be accepted and venerated with the same sense of loyalty and reverence. (***Dei Verbum*, §9**)



Disclosure from St. Peter

2 Peter 2:16 We did not follow cleverly devised myths when we made known to you the power and coming of our Lord Jesus Christ, but we had been eyewitnesses of his majesty. **17** For he received honor and glory from God the Father when that unique declaration came to him from the majestic glory, “This is my Son, my beloved, with whom I am well pleased.” **18** We ourselves heard this voice come from heaven while we were with him on the holy mountain. **19** Moreover, we possess the prophetic message that is altogether reliable. You will do well to be attentive to it, as to a lamp shining in a dark place, until day dawns and the morning star rises in your hearts. **20** Know this first of all, that there is no prophecy of scripture that is a matter of personal interpretation, **21** for no prophecy ever came through human will; but rather human beings moved by the holy Spirit spoke under the influence of God.

"The Interpretation of the Bible in the Church"

Presented by the Pontifical Biblical Commission
to Pope John Paul II on April 23, 1993

PREFACE

The study of the Bible is, as it were, the soul of theology, as the Second Vatican Council says, borrowing a phrase from Pope Leo XIII (*Dei Verbum*, 24). This study is never finished; each age must in its own way newly seek to understand the sacred books.

In the history of interpretation the rise of the historical-critical method opened a new era. With it, new possibilities for understanding the biblical word in its originality opened up.

Historical-Critical Method

OBJECTIVE of this class: Read the Scriptures in historical and cultural context
While Learning the <u>story of salvation</u>

- Who wrote?
  - Cultural context; time/era; historical influences…
- To whom?
- What message trying to convey?
  - use science, discoveries to understand the message the author is trying to convey
- Why?
- How can I apply that message to me, today?

Remember: The Bible does not err in matters of faith.

The 8 Considerations

As we read the Bible:

1. pray to the Holy Spirit, the great interpreter, before starting to read the Bible
2. Read, and ask: What does it say?
3. what does it mean? What is the context? Who is the intended audience?
4. what historical or cultural influences are reflected?
5. what was the author's intent — given that he/she was inspired by the Holy Spirit?
6. what does it mean to me?

   - choose a **memory verse; memorize.**
7. what am I going to do about the revelation received?
8. pray a prayer of thanksgiving to the Holy Spirit, ask for the Grace to digest and live out

Year 1

- Story of the Patriarchs
- Egypt, Moses, and the Exodus
- Covenant at Sinai w/ Levitical laws
- Wandering in the Desert
- Enter Canaan
- Time of the Judges
- Hope in Ruth

Year 2

- Hannah
- Story of the Kings
  - Saul, David, Solomon
- Divided Kingdom
- Prophets - Major and Minor
- Assyria
- Babylon
- Fall of Judah
- Exile

- Wisdom Literature

Destruction of the Temple of Jerusalem, by Francesco Hayez

[[File:Francesco Hayez 017.jpg|thumb|Francesco Hayez 017]]

https://www.johnbmacdonald.com/blog/solomon-to-exile-in-10-minutes

Psalm 137
Sorrow and Hope in Exile

I

1 By the rivers of Babylon
there we sat weeping
when we remembered Zion.
2 On the poplars in its midst
we hung up our harps.
3 For there our captors asked us
for the words of a song;
Our tormentors, for joy:
“Sing for us a song of Zion!”
4 But how could we sing a song of the Lord
in a foreign land?

II

5 If I forget you, Jerusalem,
may my right hand forget.
6 May my tongue stick to my palate
if I do not remember you,
If I do not exalt Jerusalem
beyond all my delights.

III

7 Remember, Lord, against Edom
that day at Jerusalem.
They said: “Level it, level it
down to its foundations!”
8 Desolate Daughter Babylon, you shall be destroyed,
blessed the one who pays you back
what you have done us!
9 Blessed the one who seizes your children
and smashes them against the rock.

https://www.americamagazine.org/faith/2020/01/10/its-hard-define-what-home-means-todays-world-psalms-can-help

By the Rivers of Babylon We Remember Zion

https://www.myjewishlearning.com/article/by-the-rivers-of-babylon-we-remember-zion/

http://wilsonuniversity.org/by-the-rivers-of-babylon/

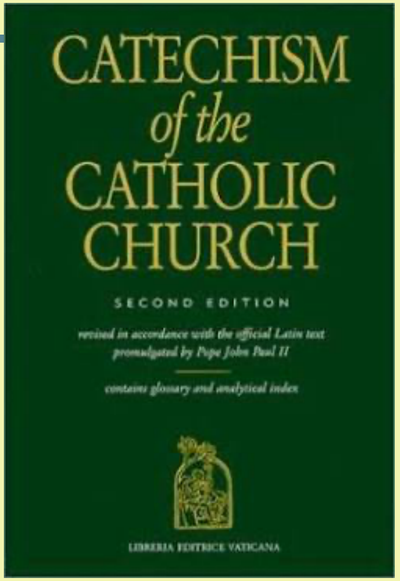
http://wilsonuniversity.org/by-the-rivers-of-babylon/

Philip Hermogenes Calderon
By the Waters of Babylon
1852

We left the Israelites In Babylon/Diaspora....

WHAT HAPPENED?
WHY ARE WE HERE?
WHAT HAPPENED?
WHERE DID MAN COME FROM?

Before we start.....



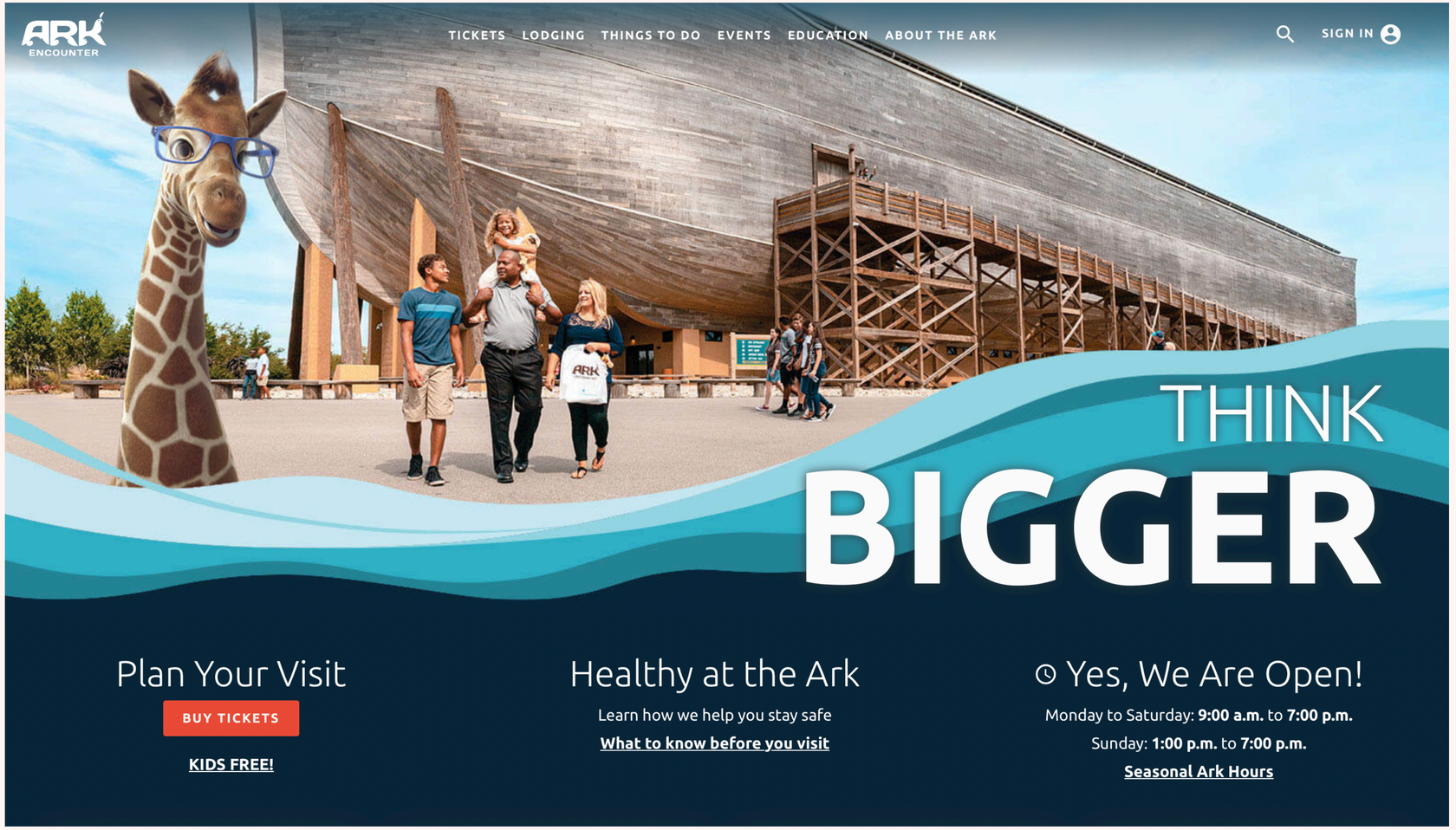
CCC §289, Among all the Scriptural texts about creation, the **first three chapters of Genesis** occupy a unique place. From a literary standpoint these texts may have had diverse sources. The inspired authors have placed them at the beginning of Scripture to express in their solemn language the truths of creation - its origin and its end in God, its order and goodness, the vocation of man, and finally the drama of sin and the hope of salvation. Read in the light of Christ, within the unity of Sacred Scripture and in the living Tradition of the Church, these texts remain the principal source for catechesis on the mysteries of the "beginning": creation, fall, and promise of salvation.

CATHOLIC ANSWERS

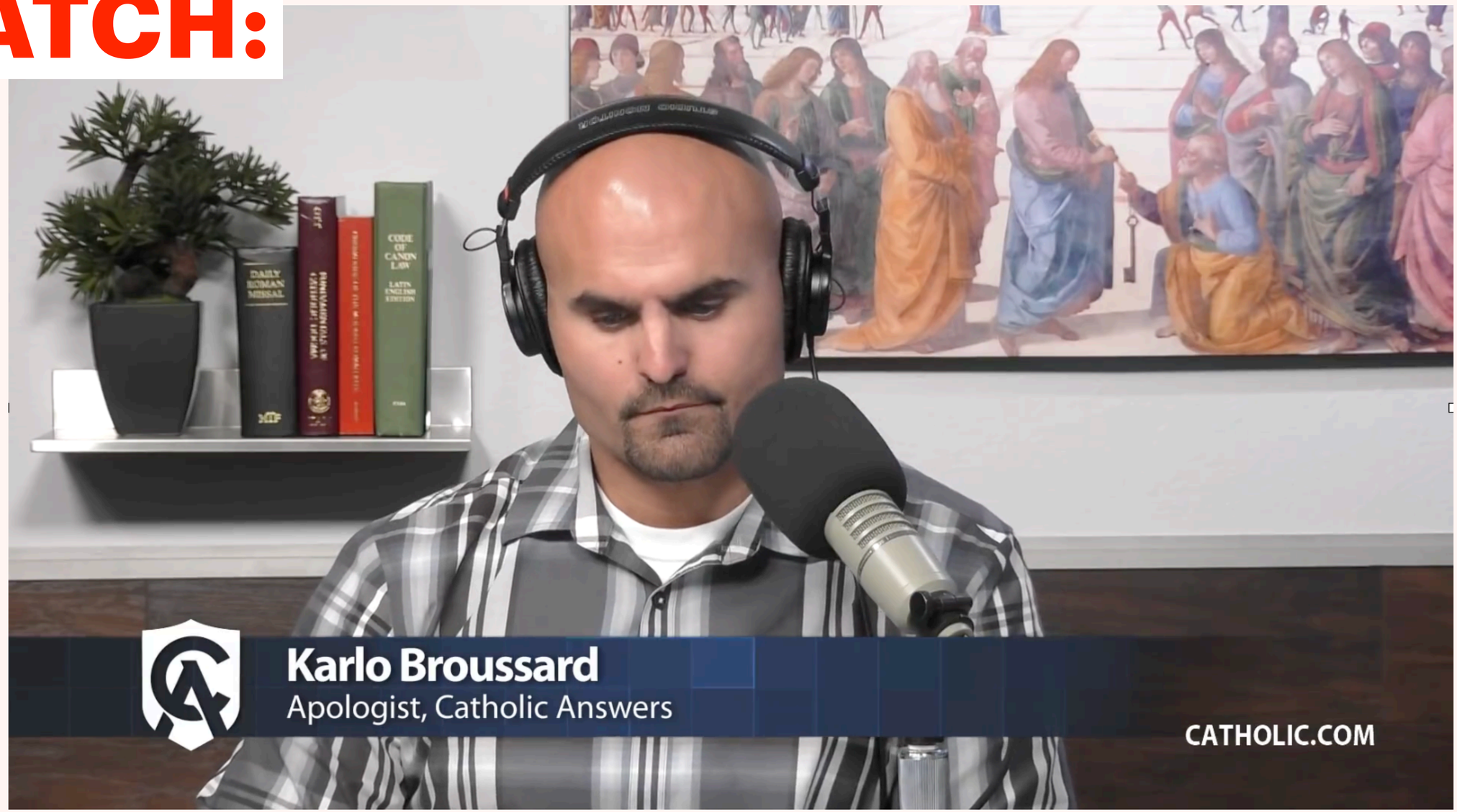
Suzie in Michigan asks:

Is it ok to visit the Noah’s Ark attraction in Kentucky.

Concern: the attraction portrays the story of Creation and Noah literally.



WATCH:



How Does the Church Teach Us to Interpret the Creation Story in Genesis? I Catholic Answers
https://www.youtube.com/watch?v=81bIlPWpsG4

linked on webpage

-HUMANI GENERIS, Pope Pius XII (1950) - “Concerning some false opinions threatening to undermine the foundations of the Catholic doctrine”

-CATECHISM of the Catholic Church - ON THE CREATION AND THE FALL - §279 - 324

-ARTICLE: How Do Catholics Understand the Creation Account of Genesis and Evolution?

GENESIS 1 - 11

PRE - HISTORY

Genesis 1:1 —

In the beginning when God created the heavens and the earth…. (NABRE)

In the beginning God created the heavens and the earth. (RSV, NIV, NRSV-CE, KJV)

In the beginning Elohim created *hashomayim* (the heavens, Himel) and *haaretz* (the earth). (OJB)

GENESIS 1 & 2

2 CREATION STORIES

Genesis 1:1 - 2:3

🧐

Genesis 2:4 - 2:25

LRB p63

J-E

Documentary Hypothesis

The documentary hypothesis is a theory, based on the work of Julius Wellhausen (1883) and developed by Martin Noth (1948), that the Pentateuch (the first five books of the Bible) developed out of a combination of at least four literary sources. These sources are often so carefully woven together that they are difficult to separate. Sometimes the sources disagree. A common characteristic in the Bible is the preservation of several—even contradictory—witnesses to important events. See, for example, the pro-monarchy (1 Sm 9:1–10:16; 11:1-15) and anti-monarchy (1 Sm 8:1-22; 10:17-27; 12:1-18) versions of the story of Saul's rise to kingship.

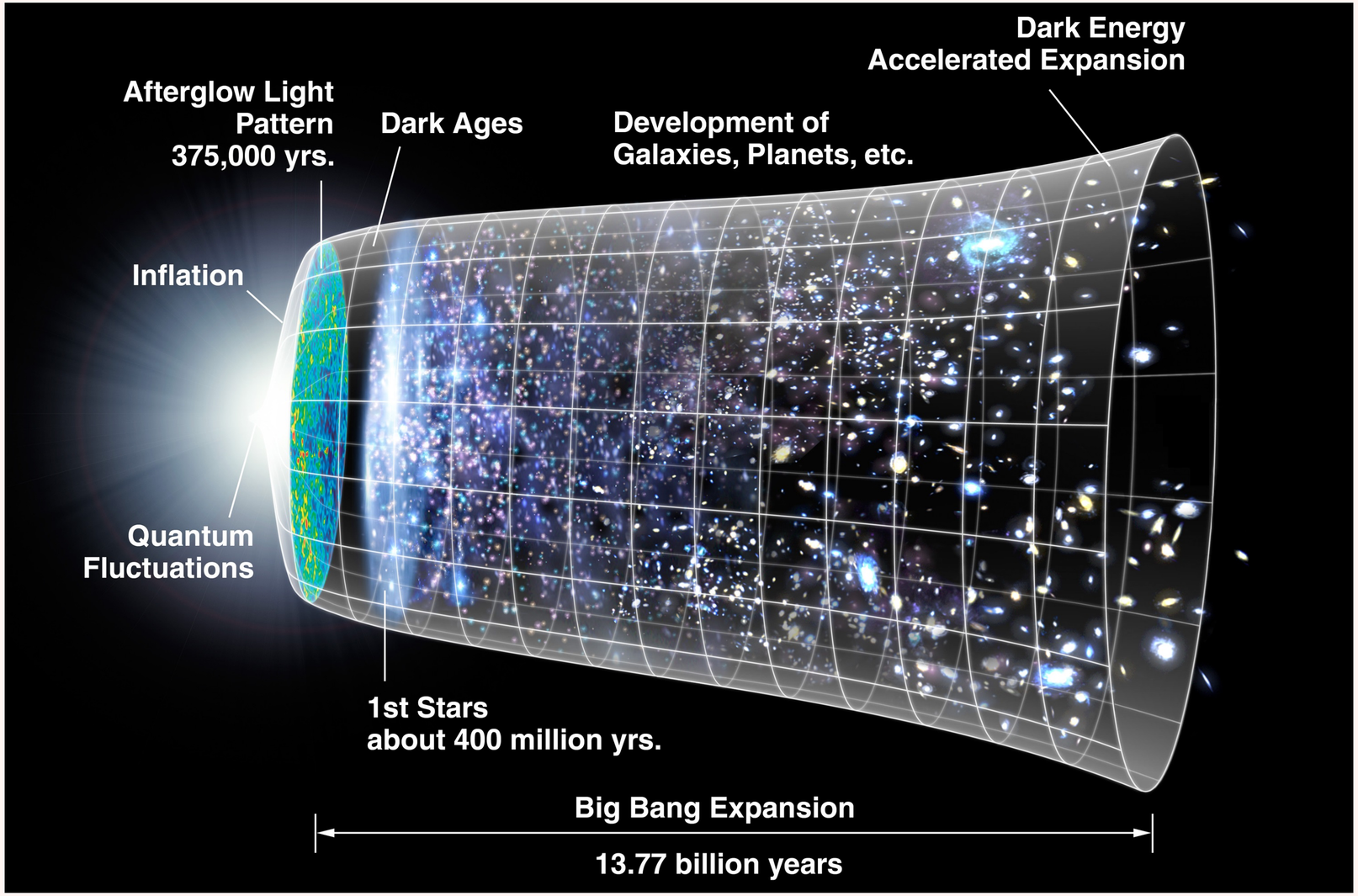
Tradition	Approximate Date	Place	Favorite Name for God	Characteristics
Yahwist (J) *First to set events in sequence*	950 B.C., time of Solomon	Jerusalem/Judah	YHWH (LORD)	God with human characteristics; stories of sin and mercy; promises to Abraham; lively, colorful style
Elohist (E) *Combined with J after 722 B.C.*	850 B.C., time of Elijah	Israel (northern kingdom)	Elohim (God)	God more distant (acts through messengers, dreams, prophets); emphasis on the fear of God, Moses
Deuteronomist (D) *Joshua–Kings influenced by D*	650 B.C. and later, after fall of the northern kingdom to Assyria	Jerusalem (but with northern influence)	Varies	Call to remember, repent; emphasis on Sinai covenant, central sanctuary; preaching style
Priestly (P) *Final editor of Pentateuch*	550 B.C. and later, during the Exile	Babylon	El Shaddai, Elohim, YHWH	Emphasis on cult and worship; genealogies; God's fidelity—is there life after exile?

GENESIS 1 & 2

2 CREATION STORIES

Genesis 1:1 - 2:3		Genesis 2:4 - 2:25
Priestly source		Yahwist/Elohist source
2nd		1st

Big Bang Theory

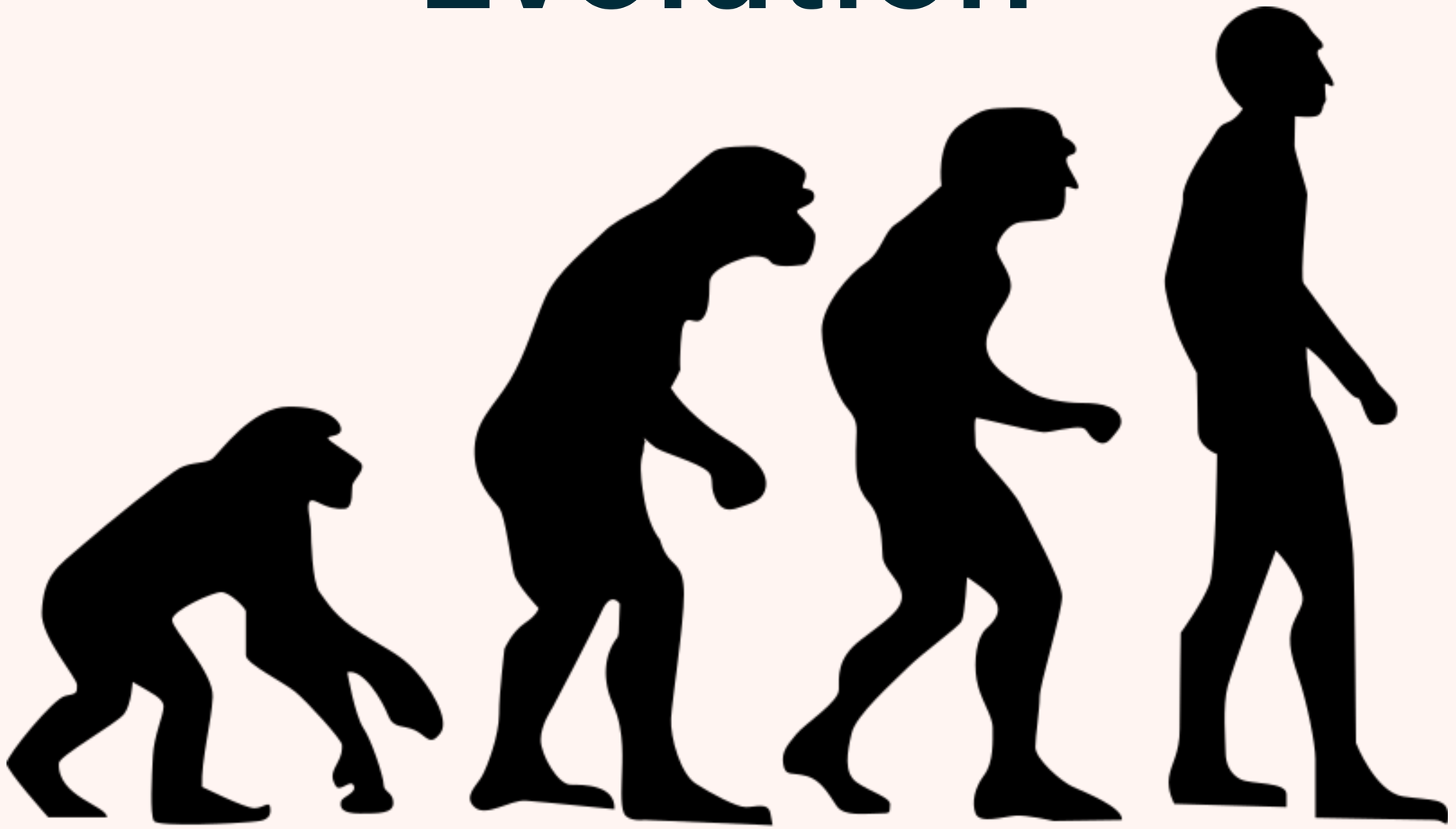


https://en.wikipedia.org/wiki/Big_Bang

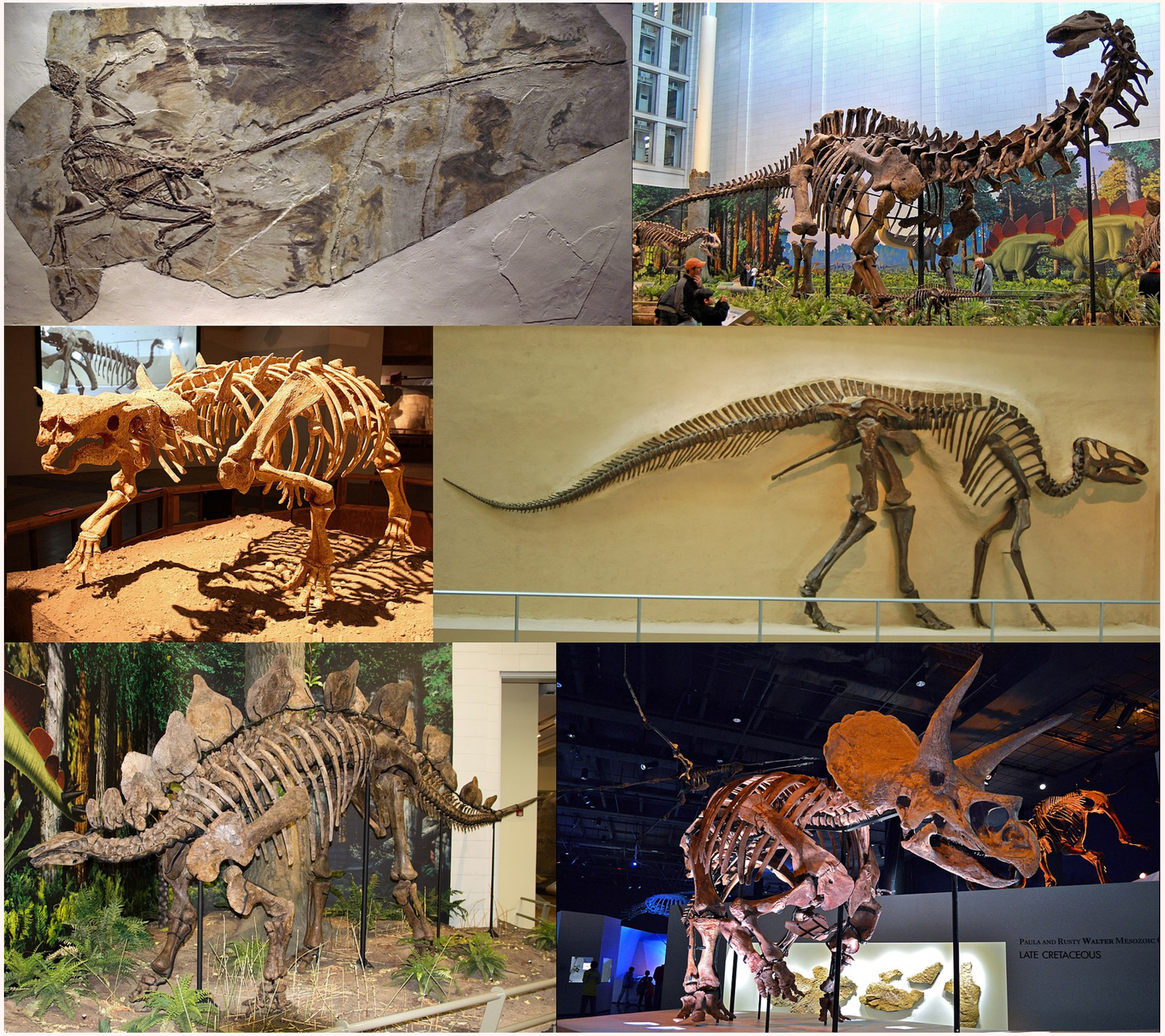
Where's the edge of the observable Universe? And what's beyond?

https://www.sciencefocus.com/space/the-universe-edge/

Evolution



[[File:Human evolution.svg|thumb|Human evolution]]



[[File:Dinosauria montage 2.jpg|thumb|Dinosauria montage 2]]

2 new species of massive sauropod dinosaurs found in China, a 1st for the region

ABC News

Researchers believe there are also sauropod nests with eggs in the region.

August 12, 2021, 11:45 AM

• 6 min read

https://abcnews.go.com/US/species-dinosaurs-found-china-scientists/story?id=79380332

Scientists have discovered two new species of dinosaurs in a region where dinosaur fossils had never been unearthed.

Fossils from three different dinosaurs dating to the Early Cretaceous period, about 130 to 120 million years ago, were recently uncovered in the Turpan-Hami Basin in northwest China, according to a study published Thursday in Nature Scientific Reports. Dinosaur fossils had never been reported there before, scientists said.

Xiaolin Wang

The dinosaur fossils before the collection.

The first specimen, Silutitan sinensis, is a new species of sauropod, an herbivore characterized by having a very long neck, long tail, large body and small head, according to study.

https://abcnews.go.com/US/species-dinosaurs-found-china-scientists/story?id=79380332

SCIENCE VS. RELIGION?

Is there a conflict?

Must we choose one or the other?

Could they possibly be complementary?

Museum of the Bible, Washington, DC

Museum of the Bible, Washington, DC

SCRIPTURE AND SCIENCE

OUR UNIVERSE, OURSELVES, OUR PLACE

We live in a universe filled with wonders, from the human body to the starry sky above. Our sense of awe and curiosity has led generations of people to ask the big questions about our universe, ourselves, and our place in it all.

What comes to mind when you think of the Bible and science? Perhaps you think they are completely different subjects. Perhaps you think of conflict.

The Bible in fact shares a long history with the study of nature in humanity's quest to understand the big questions. At times, biblical beliefs about God and creation helped encourage people to study the world. They even influenced the rise of science as we know it today.

SCIENCE VS. RELIGION?

Is there a conflict?

Must we choose one or the other?

Could they possibly be complementary?

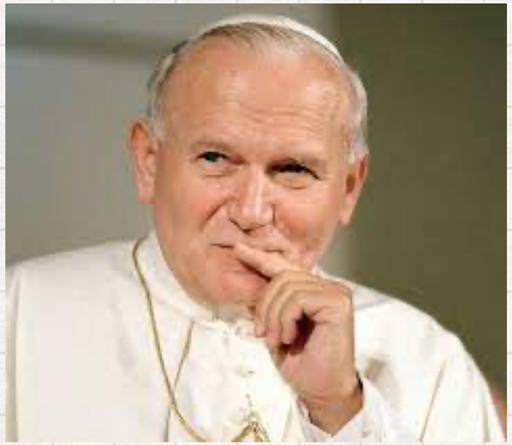
Faith and Science:
The Galileo Affair &
The Draper and White Conflict Thesis

https://www.thecatholictelegraph.com/pope-francis-pray-the-rosary-daily-for-churchs-protection-from-satan/54279

https://en.wikipedia.org/wiki/Test_tube

Faith and reason are like two wings on which the human spirit rises to the contemplation of truth; and God has placed in the human heart a desire to know the truth—in a word, to know himself— so that, by knowing and loving God, men and women may also come to the fullness of truth about themselves. (St. John Paul II, *Fides et Ratio*, Prologue)

Rabbi Jonathan Sacks, “Science takes things apart to see **how** they work; religion brings things together to see **what they mean**.”



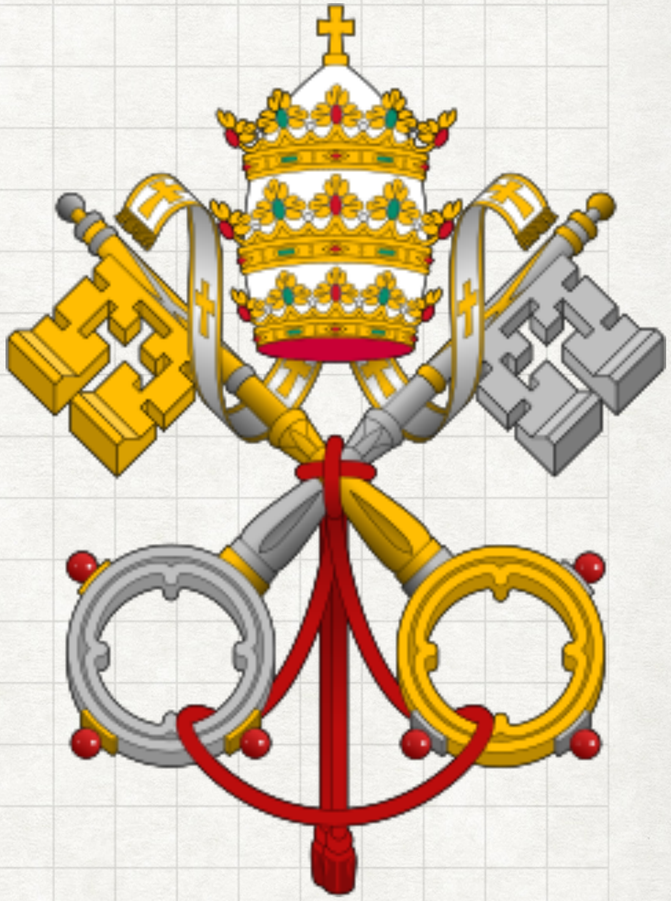
St. John Paul II: “The theological teaching of the Bible, like the doctrine of the Church... does not seek so much to teach us the **how** of things, as rather the **why** of things.”

...if methodical investigation within **every** branch of learning is carried out in a genuinely scientific manner and in accord with moral norms, it **never** truly conflicts with faith, for earthly matters and the concerns of faith derive from the same God...
Consequently, we cannot but deplore certain habits of mind, which are sometimes found too among Christians, which... lead many minds to conclude that faith and science are mutually opposed.

- Vatican II Constitution *Gaudium et Spes* ("On the Church in the Modern World"), §36

Pontifical Academy of Sciences

- Began in 1603, the ***Academy of the Lynx-Eyed*** (Accademia dei Lincei)
- was founded in Rome by Frederico Cesi (scientist, naturalist) under the patronage of Pope Clement VIII
- The purpose of the Academy was to develop "a method of research based upon observation, experiment, and the inductive method"– in other words, a truly *scientific* method.
- It predates all other existing scientific societies, including the English Royal Society and the French Academy of the Sciences.[2]
- In 1611, Galileo was inducted and quickly became its greatest member and president.
- Published at least 2 of Galileo's works



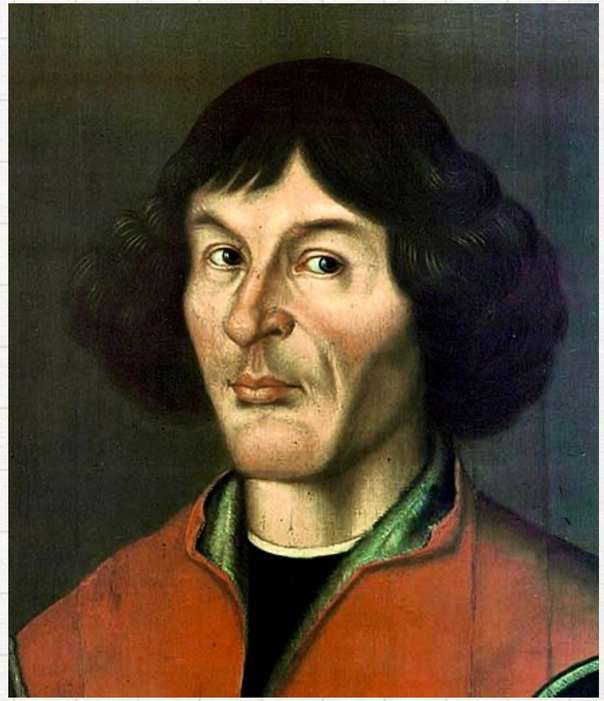
The Galileo Affair

...a blip in the Church's history
in her relationship with science

1636 portrait by Justus Sustermans

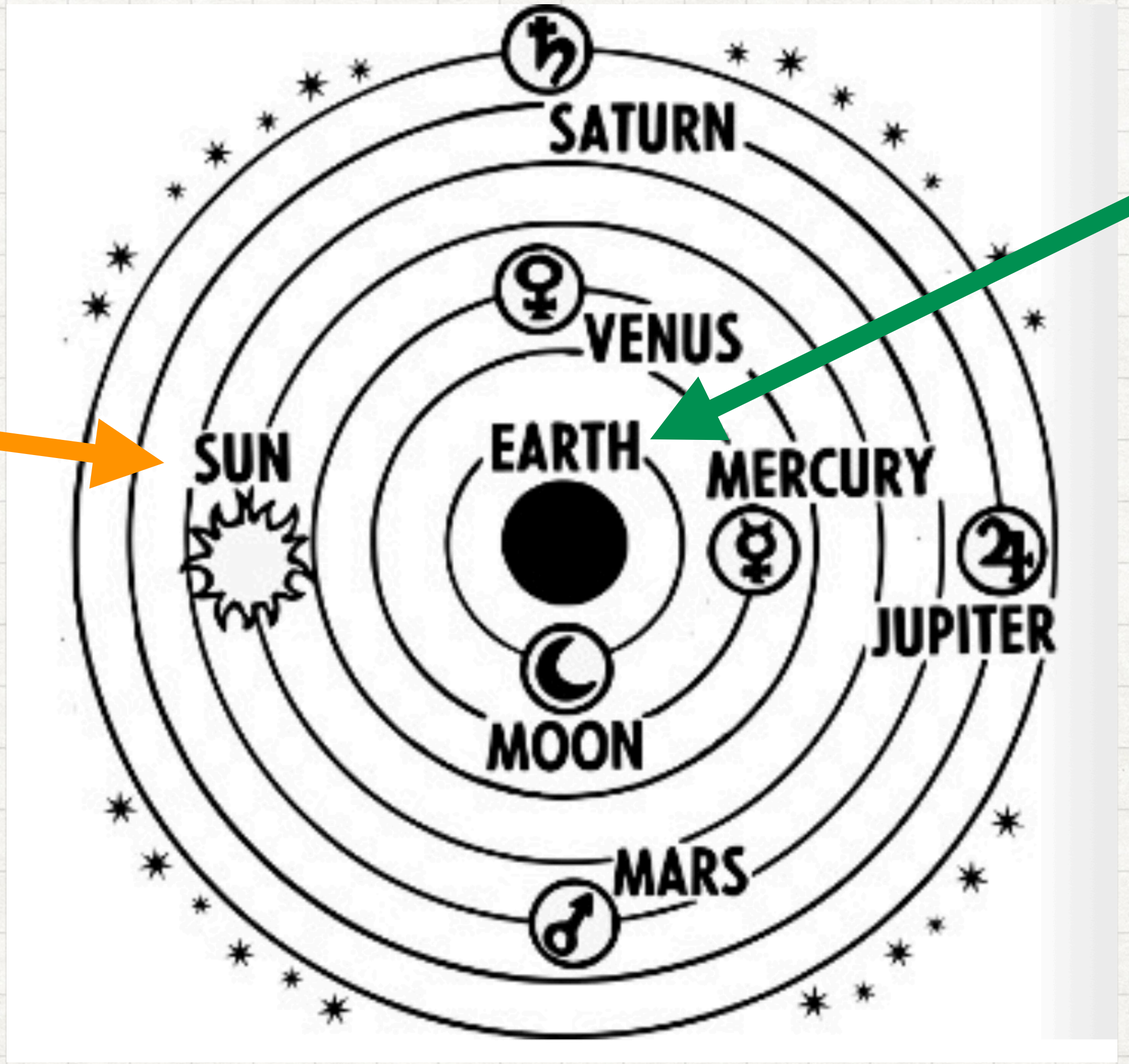
The Galileo Affair

- Began with…
- **Nicholas Copernicus** (1473-1543)— Catholic Scientist
- Book: <u>On the Revolutions of the Celestial Spheres</u>
  - Proposed:
    1. Heliocentric universe
    2. Earth orbits the sun, and rotates on its own axis
  - Many astronomers did not accept; no proof
  - Also, contradicted Joshua 10:12-14
    - This passage began the Galileo Affair….



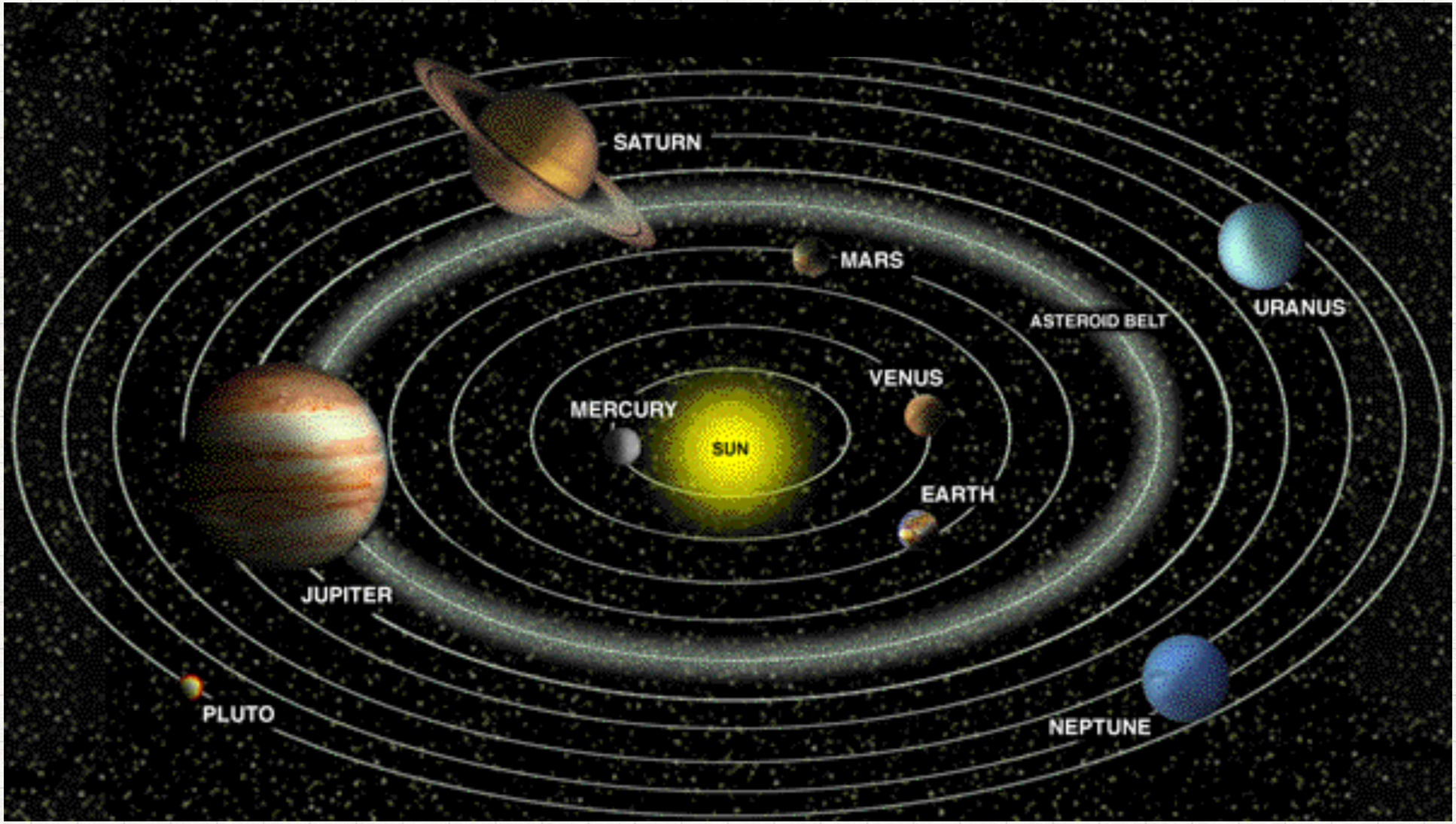
Nicholas Copernicus
The "Toruń portrait" (anonymous, c. 1580), kept in Toruń town hall, Poland[a]

GEOCENTRIC THEORY



https://faqbite.com/why/why-did-ancient-people-believe-the-earth-was-the-center-of-the-universe/

COPERNICUS: ‘SUN IS CENTER OF UNIVERSE’



https://physicsinmyview.com/2017/12/keplers-law-of-planetary-motion.html

The Galileo Affair

- Galileo di Vincenzo Bonaiuti de' Galilei (February 15, 1564 – January 8, 1642 - Pisa, Italy)
- astronomer, physicist and engineer, sometimes described as a polymath
- The father of observational astronomy,
- The father of modern physics,
- The father of the scientific method,
- The father of modern science
- A devout Catholic

1636 portrait by Justus Sustermans

The Galileo Affair

- Nicholas Copernicus (1473-1543) — Catholic Scientist
- Galileo di Vincenzo Bonaiuti de' Galilei (1564-1642), Catholic
- 1609, Galileo convinced Copernicus is right
- Dec 1613, his pupil Fr. Benedetto Castelli breakfasted with Grand Duchess of Tuscany, **Christiana de'Medici**
  - She asked: Does Copernicus' theory contradict Joshua 10?
  - Galileo: "I do not think it necessary to believe that the same God who has furnished us with senses, language, and intellect would want to bypass their use and give us by other means the information we can obtain with them," he wrote to Castelli.
  - Dutchess was satisfied with response

Galileo
1636 portrait by Justus Sustermans

Catherine de’ Medici

Portrait from the workshop of François Clouet, c. 1560

- Member of the POWERFUL **de’ Medici family (House of Medici)**
  - The Medici produced four popes of the Catholic Church — Pope Leo X (1513–1521), Pope Clement VII (1523–1534), Pope Pius IV (1559–1565)[5] and Pope Leo XI (1605)—and two queens of France—Catherine de' Medici (1547–1559) and Marie de' Medici (1600–1610)
- Florence, Italy
- She was Queen of France from 1547 to 1559 - Married to Henry II
- mother of French kings Francis II, Charles IX, and Henry III.

https://en.wikipedia.org/wiki/Catherine_de'_Medici

https://en.wikipedia.org/wiki/House_of_Medici

Christiana of Lorraine
Grand Duchess of Tuscany

unknown painter

- 1565 – 1637
- Granddaughter of Catherine de’Medici
- a French noblewoman of the House of Lorraine who became a Grand Duchess of Tuscany by marriage.
- Devout Catholic, intelligent and well-educated (due to Catherine de’Medici)
- 1n 1605, invited Galileo to tutor her son, Cosimo II de' Medici
- Galileo proposed that the four Jovian moons he discovered in 1610 be named the Medicean stars, in honor of his patron, Cosimo II de' Medici, but they soon came to be known as the Galilean satellites in honor of their discoverer.
- In 1613, was the breakfast in question, which began with questions about the Medicean stars…

Cosimo II de' Medici,
Grand Duke of Tuscany

https://en.wikipedia.org/wiki/Christina_of_Lorraine

The Galileo Affair

- So, Christiana was satisfied…
- But many others were not fine with his response
- 1615, Galileo travels to Rome **<u>voluntarily</u>** to defend himself to the Inquisition
- Inquisition found no evidence against Galileo
- But St. Robert Bellarmine asked him <u>not</u> to teach that Copernicus' theory was *<u>literally</u>* true — only that it is a *theory*
- Galileo agreed not to teach it any longer
- Bellarmine issued a **certificate** stating Galileo was not under suspicion or investigation
- June 1616, Galileo went home to Florence

Robert Bellarmine,
17th-century portrait
Antwerp, Museum Plantin-Moretus.

The Galileo Affair

- Then in 1623 (7 years later), Galileo's good friend Cardinal Maffeo Barberine became pope = Pope Urban VIII*
- In 1624, Galileo traveled to Rome to visit Pope Urban VIII
  - Galileo had 6 audiences with the pope
- Pope gave him permission to write about heliocentricism
- Pope asked Galileo to speak 'hypothetically' about his theories, and engaged Galileo in a debate of sorts
- Urban argued: because of God's omnipotence, God could've created the world in such a way that man would never know everything about its makeup or functioning because God made it to be mysterious and unknowable.
- Galileo - a scientist, thought the response foolish — but agreed

Pope Urbanus VII
Painter, date - unknown

https://en.wikipedia.org/wiki/Pope_Urban_VII

The Galileo Affair

- Galileo published his work: *A Dialogue on the Two Chief World Systems*, published in Florence in February 1632
- Received praise and accolades — and rumors
- Pope Urban VII did not defend Galileo — but became enraged: "I have been deceived!!"
  1. Pope felt humiliated, bc Galileo wrote of a person, *Simplicio* (Simpleton, Fool) who represents the geocentric position
  2. Additionally…Pope was not aware that Galileo had previously agreed not to teach heliocentricity to Bellarmine, and felt Galileo had been deceitfully silent

Pope Urbanus VII
Painter, date - unknown

https://en.wikipedia.org/wiki/Pope_Urban_VII

The Galileo Affair

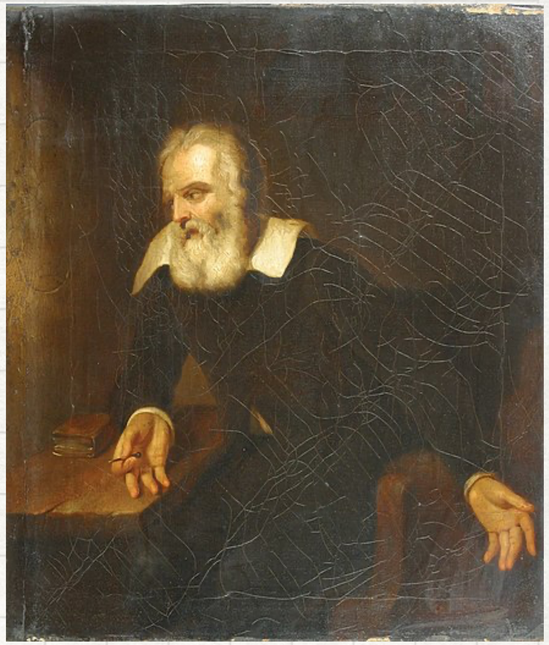
- 1633, Galileo summoned to Rome for questioning - and was treated well
- Questioned: why did you violate agreement with Bellarmine?
- Galileo backed down:
  - ‘I didn’t know book was defending heliocentrism’
  - ‘I don’t even believe heliocentrism is true.’
- Inquisitors accepted, proposed a plea so as not to go to trial
- Urban REFUSED to accept the settlement
- Demanded Galileo be:
  - arrested, not imprisoned,
  - make public renouncement of heliocentric ,
  - and his book banned
  - — no other punishment

https://www.bbc.co.uk/blogs/ni/2010/06/galileo_what_really_happened.html

A 19th-century depiction of Galileo before the Holy Office, by Joseph-Nicolas Robert-Fleury

The Galileo Affair

- June 21, 1633, sentence of “vehement suspicion of heresy”
- June 22, 1633, Galileo ‘renounced' his belief of heliocentrism
  - Some believe he added under his breath: “and yet it moves” - ???, — many doubt he said this
- He was placed under house arrest for the rest of his life
  - He continued to write and propose scientific theories



Portrait, attributed to Murillo, of Galileo gazing at the words "E pur si muove" (*And yet it moves*)

https://en.wikipedia.org/wiki/Galileo_Galilei

The Galileo Affair

- …Is a blip in the relationship of Church and Science
- Obviously motivated by papal abuse of power — Pope Urban VIII committing sin of vengeance on his old friend
- Subsequent scientific findings would start to prove heliocentrism
- When noted by the Church, prohibition against Copernicanism/heliocentrism was removed in 1820
- 1822, Galileo's *Dialogue* was removed from *The Index of Forbidden Books*
    - *FYI - Index* discontinued by Pope Paul VI in June 14, 1966
- 150 years later, in October 1979, St. John Paul II (pope) gave a speech to the Pontifical Academy of Sciences —
    - Praised Galileo's mind and greatness
    - Acknowledged the Church's error in condemning him.

The Galileo Affair

- in October 1979, St. John Paul II (pope) continued:
  - Galileo's opponents failed to recognize what was obvious to Galileo himself, that : "... the Bible does not concern itself with the details of the physical world... which is the competence [i.e. the proper domain] of human experience and reasoning." Galileo had not contradicted the Bible by promoting heliocentrism because the Bible, as God's Revelation, is not about such details. It was his adversaries, not Galileo, who committed the real theological mistake in the whole sad affair. Not recognizing the liberty that Sacred Tradition had always given to science, they condemned a *scientific hypothesis* as a *theological error*.

https://www.britannica.com/biography/Saint-John-Paul-II

W*arfare* or C*onflict Model* of science and faith.

- historical roots in 19th century America

19th Century

1. In Europe and US
   - Change of vocabulary
     - Before 19th Century: Science = Philosophy
       - Science = any knowledge derived logically
         - *Including* theological knowledge
     - Late 19th Century:
       - Science/scientific method = defined as the study of the physical world through observation and experiment
         - Word “Scientist” - coined 1834 - William Whewell, Cambridge University historian and philosopher of science
       - New designations: botanist, chemist, physicist, etc
       - **Philosophy and theology excluded**

19th Century

2. In US only : rise of anti-Catholic bias

- Large influx of Irish and other Catholics in mid 1800's - illiterate, poor
- Fear - Catholics wanted to bring US/world under authority of Pope
- False claims about Catholicism and science developed
- Dogmas of the Church — were seen as irrational, following blindly
- Believed: Catholics wanted to prevent advancement in science and knowledge

ENTER….

John William Draper
(1811–1882)

Andrew Dickson White
(1832–1918)

John William Draper (1811–1882)

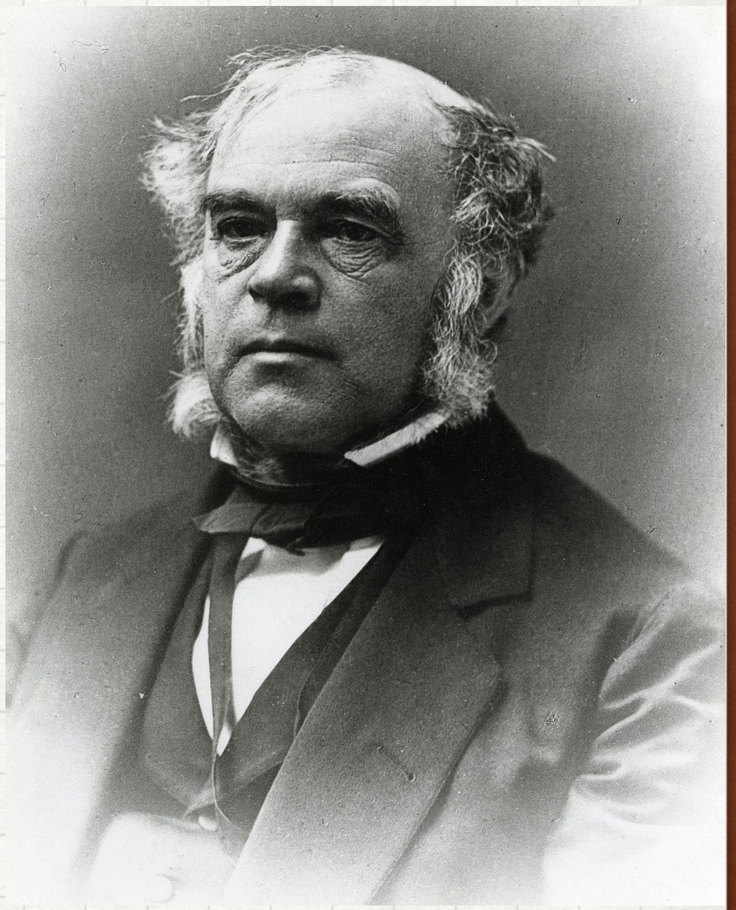
- Chemist and photographer, very successful
- Book: ***History of the Conflict between Religion and Science***
- "The history of Science is not a mere record of isolated discoveries; it is a narrative of the conflict of two contending powers, the expansive force of the human intellect on one side, and the compression arising from [traditional] faith."
- *Not* the Protestant or Greek Orthodox — who revered science and truth…
- BUT the Roman Catholic Church

John William Draper (1811–1882)

- Claimed the RCC historically rejected science, and used bloody, violent force to suppress science
  - …so as to maintain political control
- Book: “In speaking of Christianity, reference is generally made to the Roman Church, partly because its adherents compose the majority of Christendom, partly because its demands are the most pretentious, and partly because it has commonly sought to enforce those demands by the civil power. None of the Protestant Churches has ever occupied a position so imperious —none has ever had such widespread political influence... ...But in the Vatican—we have only to recall the Inquisition—the hands that are now raised in appeals to the Most Merciful are crimsoned. They have been steeped in blood!”

John William Draper (1811–1882)

- In book, gave examples of conflicts….but **no** evidence
  - Made up details, presented them as facts
  - Rearranged sequence of events to "prove" his points
  - Rewrote the writings of St. Augustine and others to misconstrue what they taught
  - Ends book with:
    - "As to the issue of the coming conflict, can anyone doubt? Whatever is resting on fiction and fraud will be overthrown. Institutions that organize impostures and spread delusions must show what right they have to exist. Faith must render an account of herself to Reason. Mysteries must give place to facts. Religion must relinquish that imperious, that domineering position which she has so long maintained against Science."



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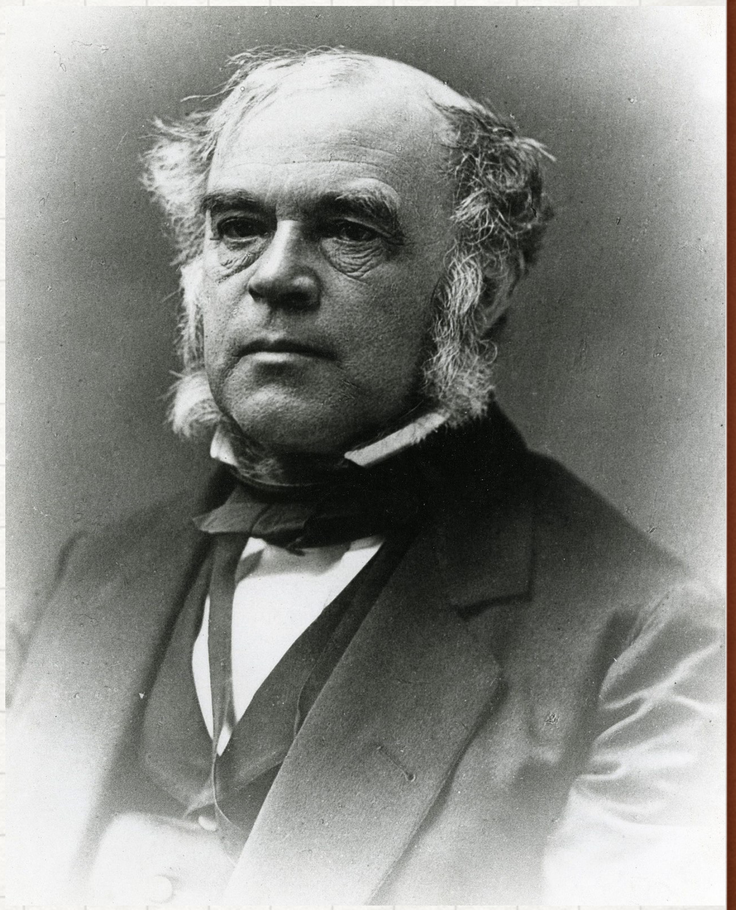
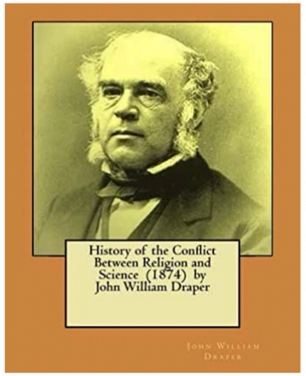


John William Draper (1811–1882)

- Book was an instant success
  - Reprinted 50 times
  - Translated 10 languages
  - Still available today
    - Even on amazon.com

Was on the
Index of Forbidden Books



History of the Conflict Between Religion and Science (1874) by John William Draper

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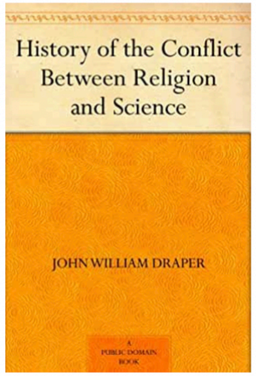

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Andrew Dickson White (1832–1918)

- American historian
- co-founder of Cornell University (1865),
  - the first purely **secular** college/university in the US
- Cornell's first president for 19 years (1866 – 1885)
- A politician:
  - NY state senator;
  - American diplomat to Germany and Russia
- Cornell U was criticized for being purely secular….so he countered:
- Wrote a 2-volume book: *History of the Warfare of Science with Theology in Christendom*, first published in 1896

Andrew Dickson White (1832–1918)

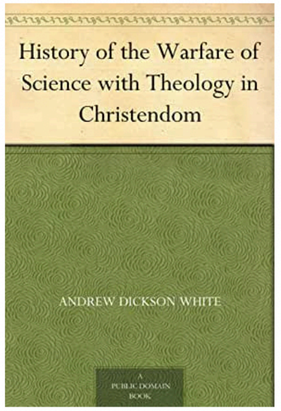
- He first praised Draper of his book,
- Then continues to repeat Draper's false statements
- Including the 'flat-earth dogma' and Christopher Columbus
- Claimed Catholic church taught earth was flat
- And Christopher Columbus argued tirelessly and unsuccessfully with Catholics at Univ of Salamanca in 1487 that the earth was round
  - *In actuality, only TWO Christian thinkers, Lactantius (c. 250-c. 325 AD) and Cosmas Indicopleustes (6th century AD) had ever claimed that the earth was flat.*
- **MANY still believe history this way**

Andrew Dickson White (1832–1918)

- Truth is:
  - only two Christian thinkers, Lactantius (c. 250-c. 325 AD) and Cosmas Indicopleustes (6th century AD) had ever claimed that the earth was flat.
  - White misrepresents more important Christian thinkers, such as St. Basil the Great and St. John Chrysostom, as flat-earthers …
  - and presents Lactantius and Cosmas as representative of the official Christian position
  - ACTUALLY: all at Salamanca *agreed* with Columbus that the Earth is spherical.
    - The debate at Salamanca was the SIZE of the earth;
      - Columbus thought it was small enough to get to Asia with sufficient supplies, and his opponents thought that it was much larger. (His opponents were right; it was much larger than Columbus thought, although neither they nor Columbus knew about what lay between Europe and Asia: the America

Andrew Dickson White (1832–1918)

- 2-volume book: *History of the Warfare of Science with Theology in Christendom*, first published in 1896
- Still available for purchase:



History of the Warfare of Science with Theology in Christendom
by Andrew Dickson White | Mar 30, 2011
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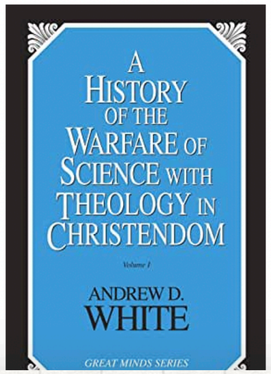

A History of the Warfare of Science With Theology in Christendom (2 Volume Set)
by Andrew D. White | May 1, 1993
★★★★½ 17

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$3.99 shipping

John William Draper (1811–1882)

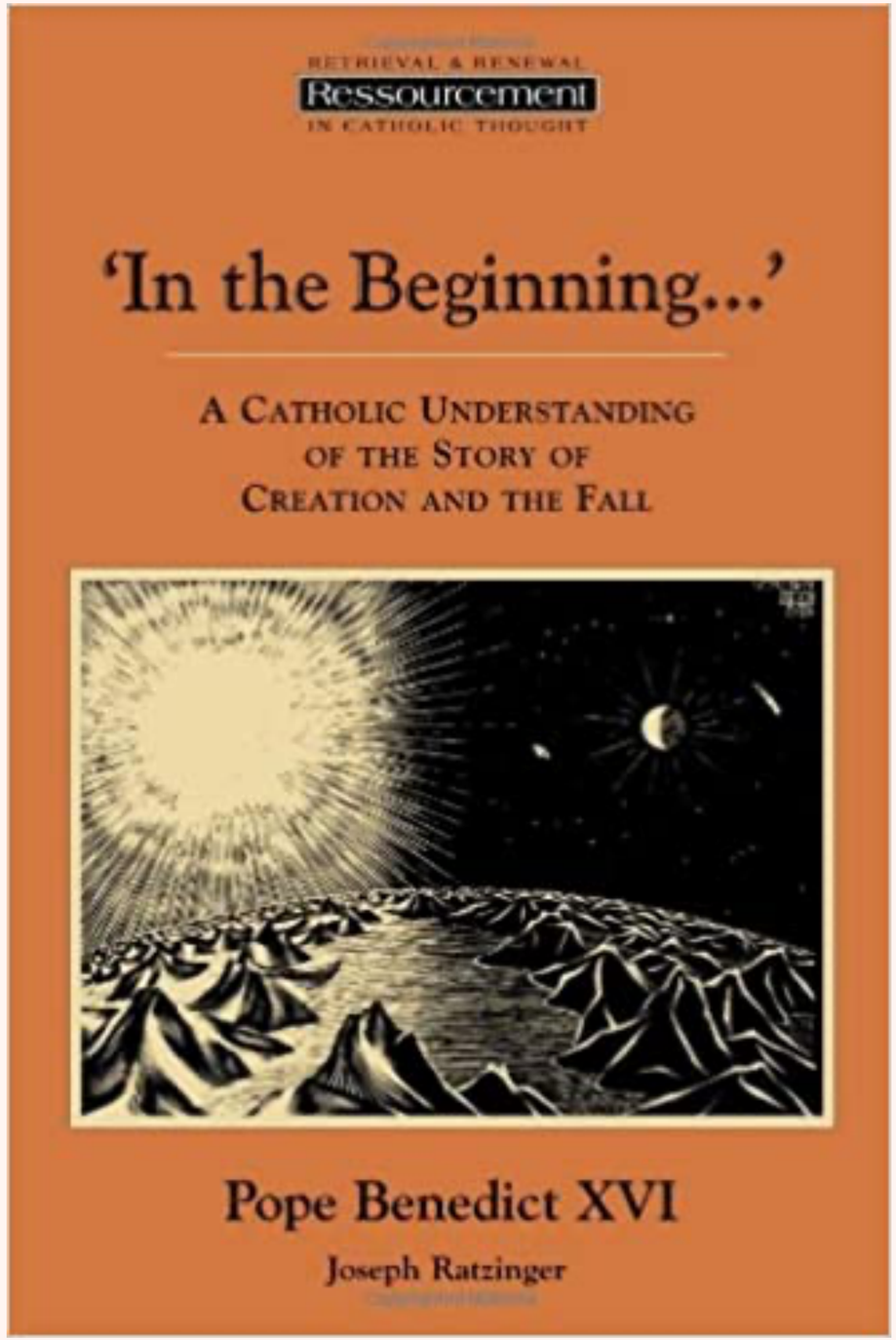
Andrew Dickson White (1832–1918)

Because of

1/ the change in vocabulary/definitions,

2/ teachings/books of Draper and White,

there was the propagation there was a conflict between science and faith



'In the Beginning…' - A Catholic Understanding of the story of Creation and the Fall

by
Joseph Cardinal Ratzinger (Pope Benedict XVI)
and Boniface Ramsey

****Link to the online version on class webpage**

In 2014, Pope Francis states:

"When we read the account of Creation in Genesis we risk imagining that God was a magician, complete with an all-powerful magic wand. But that was not so. He created beings and he let them develop according to the internal laws with which He endowed each one that they might develop, and reach their fullness... The Big Bang theory, which is proposed today as the origin of the world, does not contradict the intervention of a divine creator but depends on it. Evolution in nature does not conflict with the notion of Creation, because evolution presupposes the creation of beings that evolve."

From Address, Pope Francis, to Pontifical Academy of Science, Oct 27, 2014

Billboard on I-75 N near Ocala, FL

CREATIONISM

CREATIONISM

- The Catholic Church does NOT teach Creationism
- **Creationism**: God literally created the Heavens and Earth in 6 days (as we understand days, 24-hour periods) as is described in Genesis 1-2
  - Teach Bible is true, but draw erroneous conclusions
  - Creationists dismiss evolution
- Catholics believe:
  - God created the Heavens and the Earth and all Inhabitants
  - Bible teach us the truth of above - but ***does not tell us how it happened.***
  - Authors wrote the truth of God, but were limited to their understanding of the physical world

SCIENCE VS. RELIGION?

Is there a conflict?

Must we choose one or the other?

Could they possibly be complementary?

There is NO conflict between faith and science:

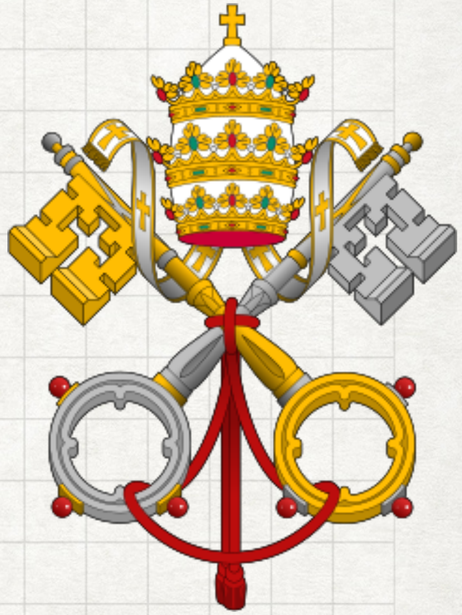
Science → HOW

Faith → WHY

End Deacon John

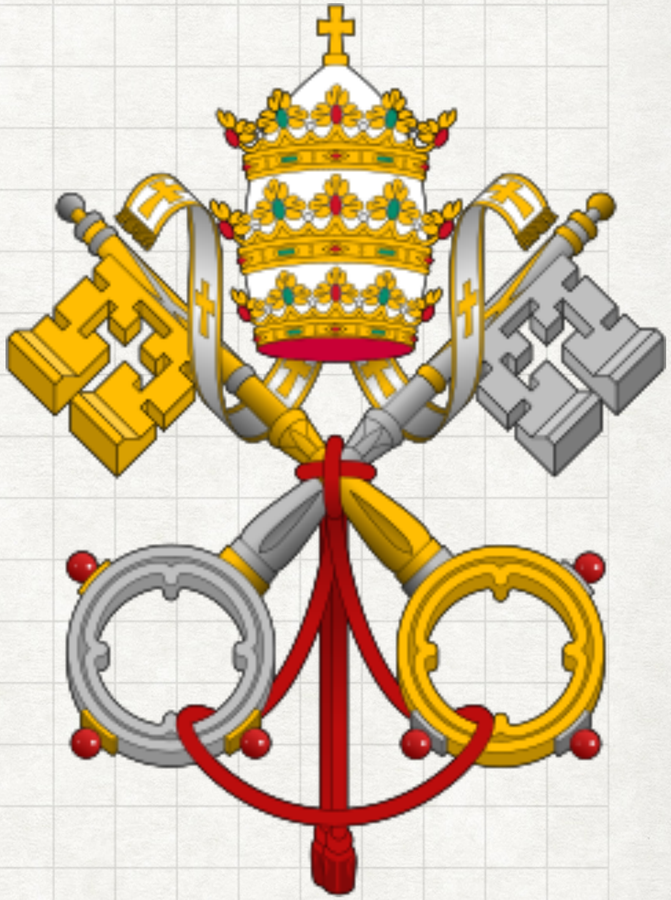
Pontifical Academy of Sciences

- The Academy closed with the death of founder Frederico Cesi in 1630.
- It was refounded in 1847 by Blessed Pius IX, under the name *Pontifical Academy of New Lincei*.
- In 1937 it received its present name from Pope Pius XI – the *Pontifical Academy of Sciences*
- Its goal is “the promotion of the progress of the mathematical, physical, and natural sciences, and the study of related... questions and issues.”
- Since 1908, it has had forty-five Nobel Prize winners among its members.



Pontifical Academy of Sciences

- The Pontifical Academy of the Sciences is <u>autonomous</u> as a scientific organization - has the freedom to pursue science
- recognizes that all human beings are capable of reason, and therefore, of good science.
  - Therefore, all scientists can participate, regardless of religious state
- As of 2017, members included
  - the renowned physicist **Stephen Hawking**, atheist,
  - and **Francis Collins**, the geneticist who led the team that mapped the entire human genome, an evangelical Christian.



Catholic Priest-Scientists and Their Scientific Contributions to the *'HOW'*

Nicolas Steno
1638-1686

Georges Lemaitre
1894-1966

Blessed Nicolas Steno 1638-1686
Father of Modern Geology

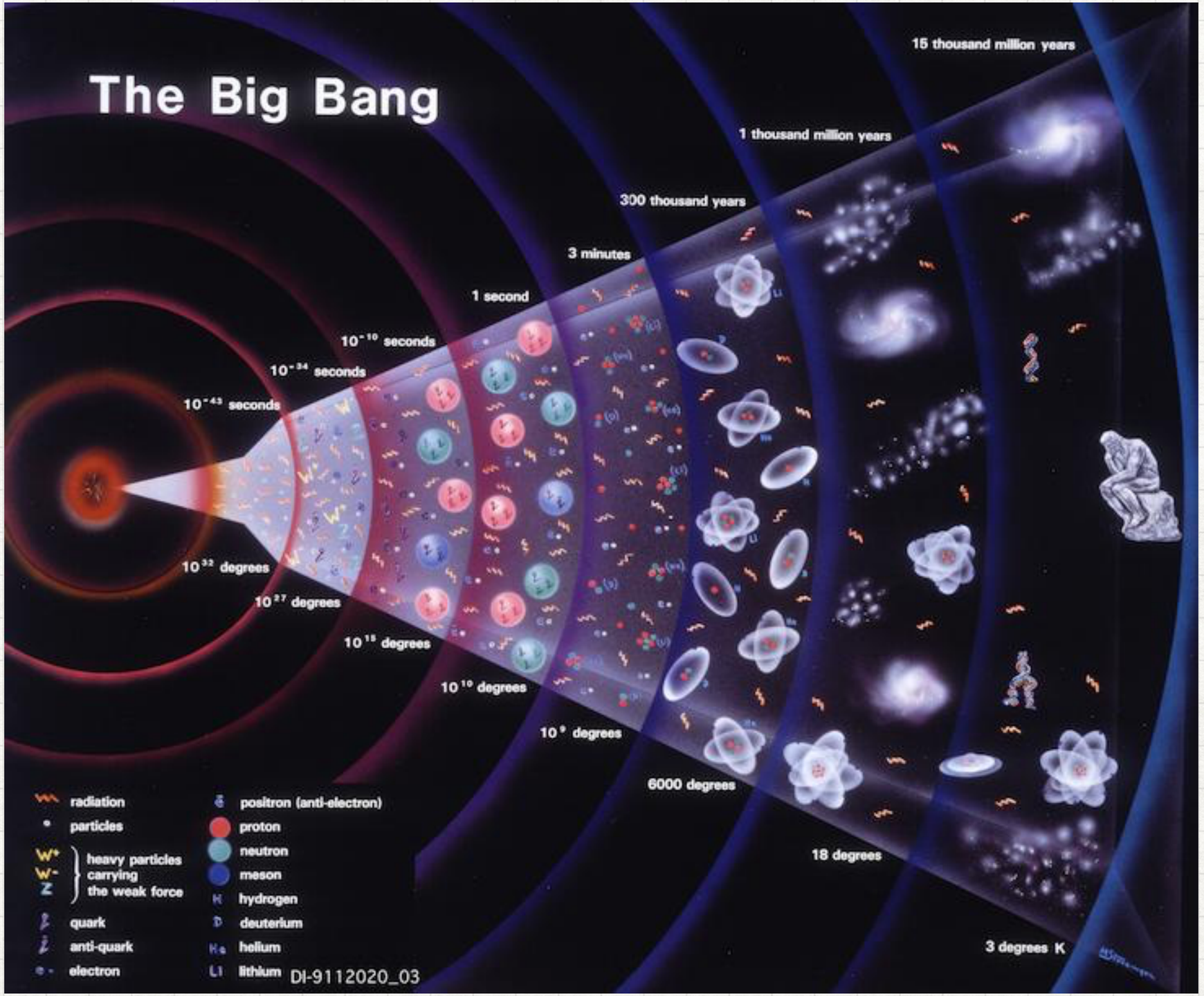
- Born in 1638 in Denmark to a Lutheran family
- Steno completed university studies in medicine
- Made notable contributions in the fields of anatomy, crystallography, geology, and paleontology
- Explored various schools of philosophy and theology in Florence and Rome and was a friend and physician to the Medici
- **1667 -- entered the Catholic Church**
- **1675 -- ordained a priest**
- **1677 -- became a bishop, gave away his wealth, and lived in poverty.**
- **Prayed for the unity of the Catholic and Protestant faiths**
- **Died –- 1686; Beatified -- 1988**

Steno — Science of Stratigraphy

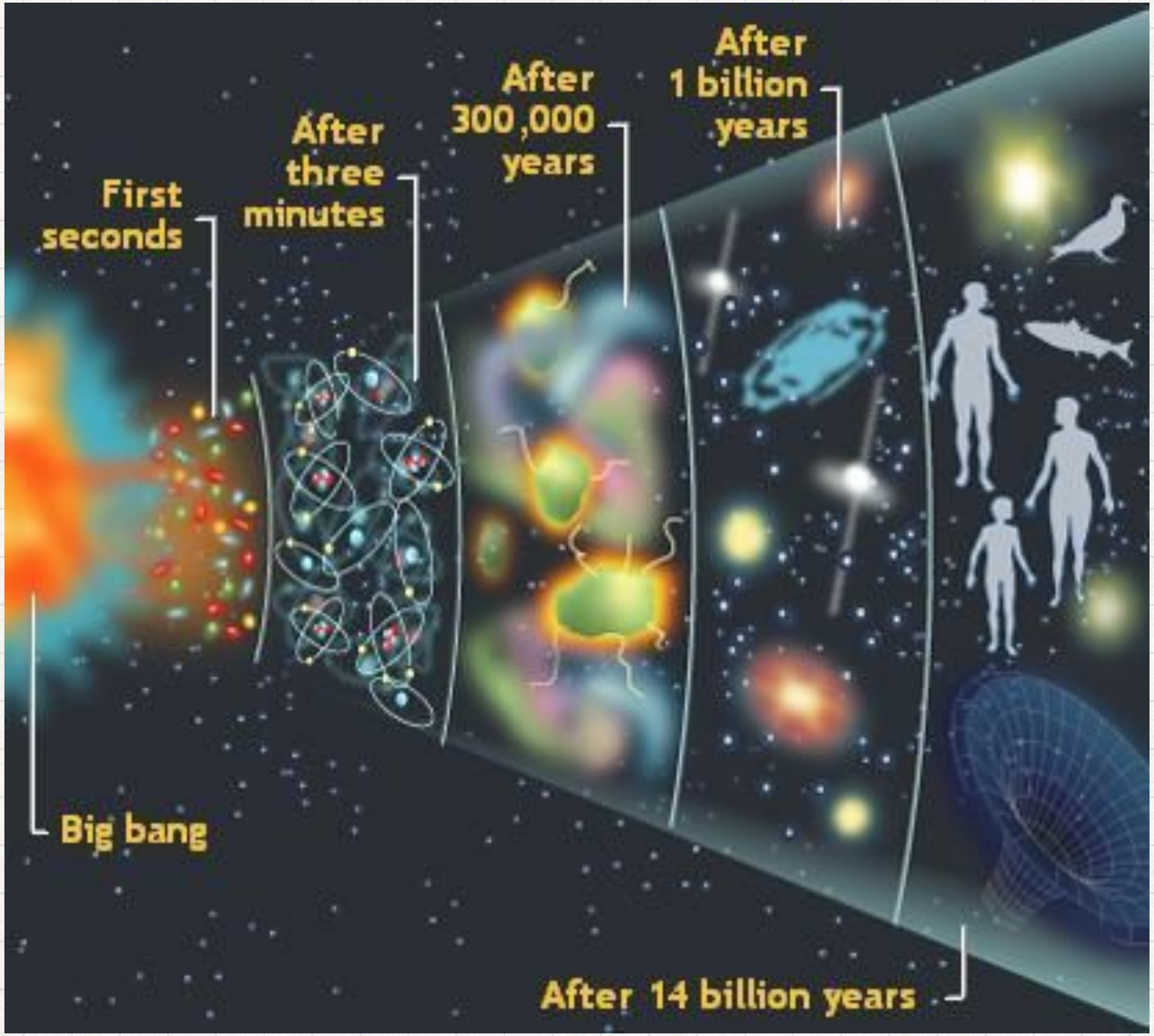
Oldest is
Deepest

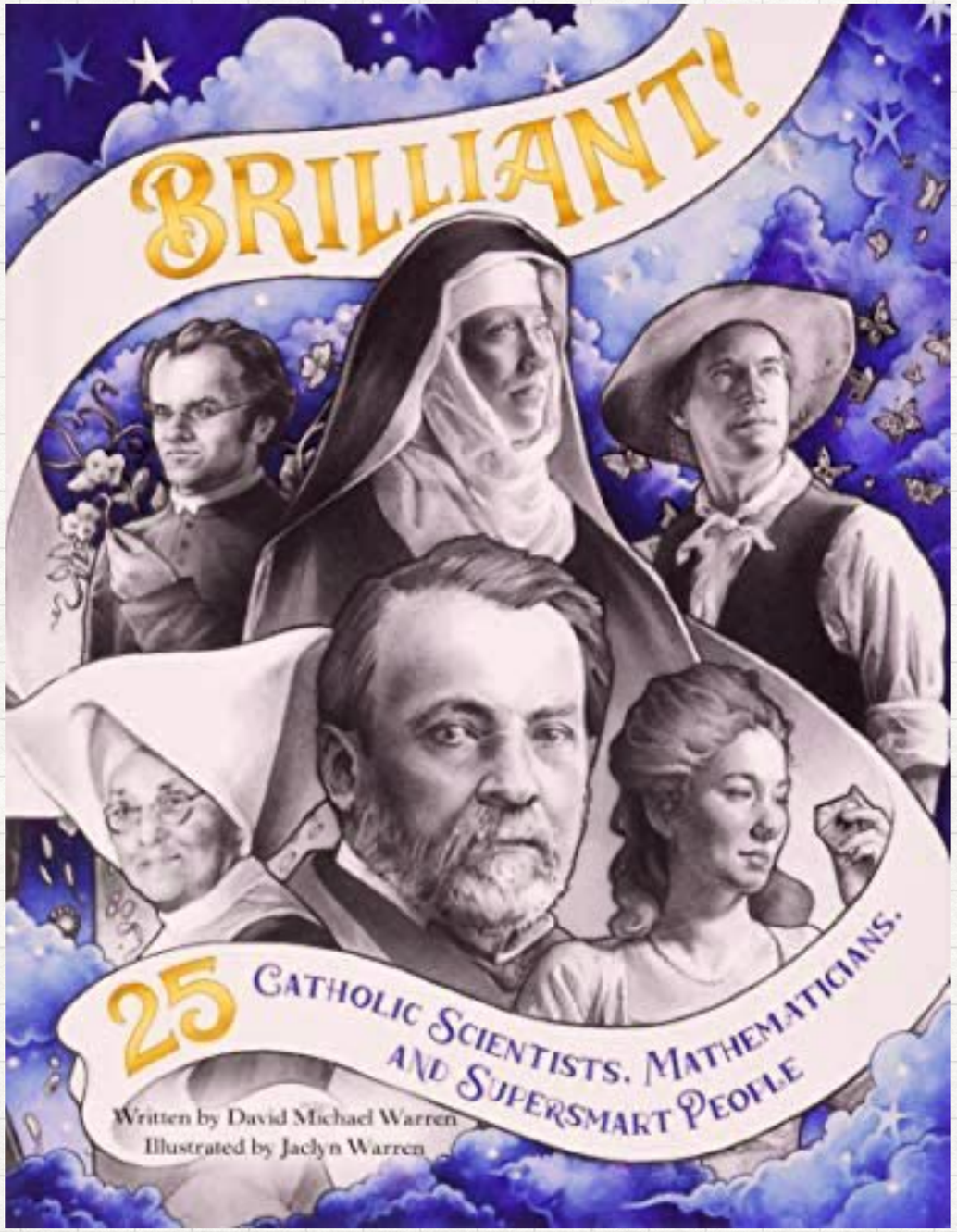
Father Georges Lemaitre
1894-1966
Father of the Big Bang Theory

- Lemaître was born in 1894 in Belgium
- From a devoutly Catholic Family, he announced his intention to become a priest at age 9. He was ordained in 1923 at age 29.
- Extremely bright and especially talented in mathematics and physics
- Served in the Army artillery in WWI. Other soldiers were amazed that he could study Physics in the trenches
- Received a doctorate in Mathematics from the Catholic University of Leuven in 1920 —became a graduate student in astronomy at the University of Cambridge in England



https://nautil.us/the-tangled-history-of-big-bang-science-236434/


Big bang
First seconds
After three minutes
After 300,000 years
After 1 billion years
After 14 billion years


BRILLIANT!
25 CATHOLIC SCIENTISTS, MATHEMATICIANS, AND SUPERSMART PEOPLE
Written by David Michael Warren
Illustrated by Jaclyn Warren

The Bible itself speaks to us of the origin of the universe and its make-up, not in order to provide us with a scientific treatise, but in order to state the correct relationships of man with God and with the universe. Any other teaching about the origin and make-up of the universe is alien to the intentions of the Bible, which does not wish to teach us how heaven was made but how one goes to heaven.

— St. John Paul II, *Speech to Scientists*, October 3, 1981

Creation: A Catholic's Guide to God and the Universe and millions of other books are av

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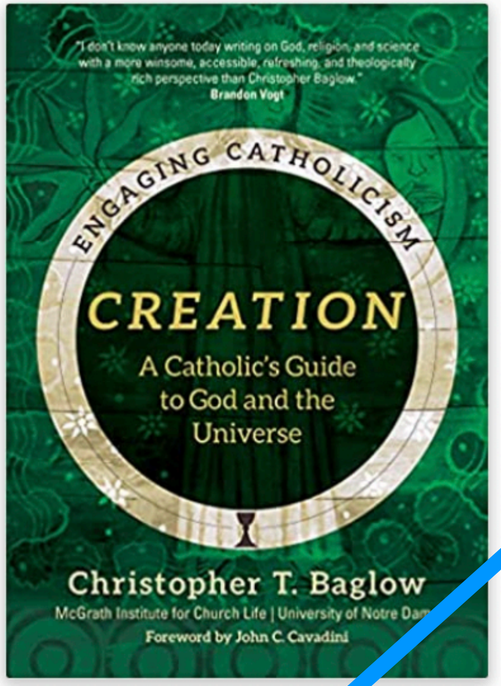

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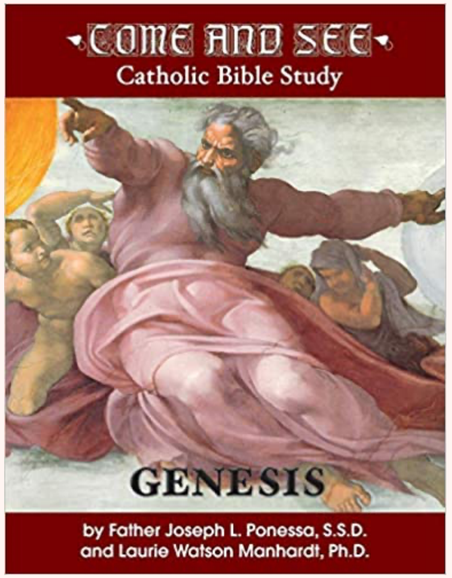
Homework:

Read Genesis 1-2, and 3-4

- Look at the ‘how’ presented by the Biblical writers
- Look at the ‘why’ — the truth presented but the Biblical writers
- Come and See: Genesis - Chapters 1 - 4
- Check out some of the links on the webpage - under 8/25 and 9/1 classes



Is Everybody Good?

DOWNLOAD THE JEWISH STUDY BIBLE -TANAKH

Pre-class Reading:

- Catechism of the Catholic Church, §279 -324
- Divino Afflante Spiritu | Vatican Document
- Humani Generis | Vatican Document
- Book: In the Beginning: A Catholic Understanding of Creation and Fall | Pope Benedict XVI

August 24, 2023 – Re-Intro to Bible Study; Science and Religion

- Class Slides

- USCCB – Genesis – Introduction
- Video: How Does the Church Teach Creation Story in Genesis | Catholic Answers
- Article: How do Catholics Understand the Creation Account of Genesis and Evolution?
- Pope Francis, Address to the Pontifical Academy of Sciences, Oct 27, 2014
- Video: Bishop Barron on Misreading Genesis
- Video: Catholics and the Big Bang Theory | Catholicism in Focus
- Video: The Big Bang, Evolution, and Catholicism | Trent Horn
- Video: Fr. Robert Spitzer, S.J. – "Science, the Creation of the Universe and Beyond"
- Video: Where are Dinosaurs in the Creation Story? | Catholic Breakfast
- Video: We Love Science! | Catholic Breakfast
- Video: We Believe in a Creator God | Catholic Breakfast
- Video: The Church on Evolution | The Magis Center
- Video: What does the Church Teach About Evolution? | Catholic Answers
- Video: Can A Christian Believe in Evolution? | Breaking the Habit, Fr. Casey
- Video: Are Creation and Evolution Compatible? (Aquinas 101) | Thomistic Institute
- Video: How Did Life on Earth REALLY Begin? | Thomistic Institute

- Vatican: General Audience of Feb 6, 2013 – Pope Benedict XVI
- Vatican: General Audience of Aug 26, 2009 – Pope Benedict XVI
- Vatican: General Audience of April 2, 2014 – Pope Francis
- Vatican: General Audience of May 21, 2014 – Pope Francis

August 31, 2023 – Genesis 1-2

- Class Slides
- USCCB – Introduction to Genesis – "Genesis 1-11"

- Video: Enuma Elish – The Babylonian Epic of Creation
- Article: Enuma Elish – The Babylonian Epic of Creation | World History Encyclopedia
- Message to the Pontifical Academy of Sciences: On Evolution | St. Pope John Paul II

- Video: What is Theology of the Body? – Christopher West
- Theology of the Body Summary statements – EWTN – 129 General Audiences
- Vatican: "Male and Female He Created Them" – Toward a Path of Dialogue on Gender Theory in Education
- Encyclical: Rerum Novarum – On Capital and Labor | Pope Leo XIII
- Encyclical: Laudato si', On Care for Our Common Home | Pope Francis

CONCLUDING PRAYER - From Evening Prayer, LOH

Lord,
sustain within us the faith
which made Saint Bartholomew ever loyal to Christ.
Let your Church be the sign of salvation
for all the nations of the world.
We ask this through our Lord Jesus Christ, your Son,
who lives and reigns with you and the Holy Spirit,
God, for ever and ever.
– Amen.