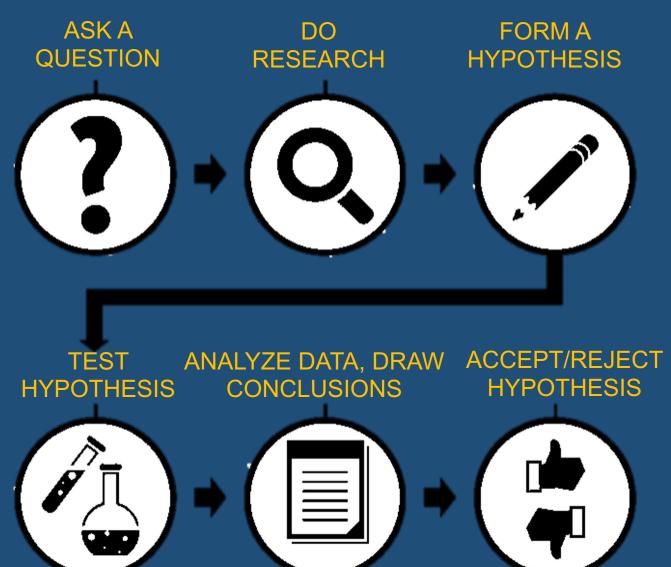
HOW DID YOU SOLVE THE RIDDLE? THE SCIENTIFIC METHOD



LIST OF PEOPLE WHO PLAYED A ROLE IN CREATING THE MODERN SCIENTIFIC METHOD:

- ARISTOTLE 350 BCE
- PTOLEMY 150 CE
- AL HAZEN 1000 CE
- GROSSETESTE 1250 CE
- ROG BACON 1260 CE
- SANCHEZ 1581 CE (SEE NEXT SLIDE)
- F. BACON 1620 CE
- DESCARTES 1637 CE

"THAT NOTHING IS KNOWN"

-SKEPTIC FRANCISCO SANCHEZ, 1581 (HUMANS CAN NEVER KNOW EVERYTHING, BUT SHOULD USE THE SCIENTIFIC METHOD (PHRASE HE COINED) TO COME AS CLOSE AS POSSIBLE)

- DENIS DIDEROT (ET AL) DECIDED TO COMPILE ALL KNOWN HUMAN KNOWLEDGE IN THE...
 - GOAL: "TO CHANGE THE WAY PEOPLE THINK..."
 - 28 VOLUMES OVER 20+ YEARS
 - 18,000 ARTICLES, 20M WORDS
- CONTRIBUTORS:
 - DIDEROT, MONTESQUIEU, ROUSSEAU, VOLTAIRE

ENCYCLOPEDIE,

DICTIONNAIRE RAISONNÉ DES SCIENCES, des arts et des métiers,

PAR UNE SOCIÈTE DE GENS DE LETTRES.

Mis en ordre & publié par M. DIDEROT, de l'Académie Royale des Sciences & des Belles-Lettres de Pruffe; & quant à la PARTIE MATHÉMATIQUE, par M. D'ALEMBERT, de l'Académie Royale des Sciences de Paris, de celle de Pruffe, & de la Société Royale de Londres.

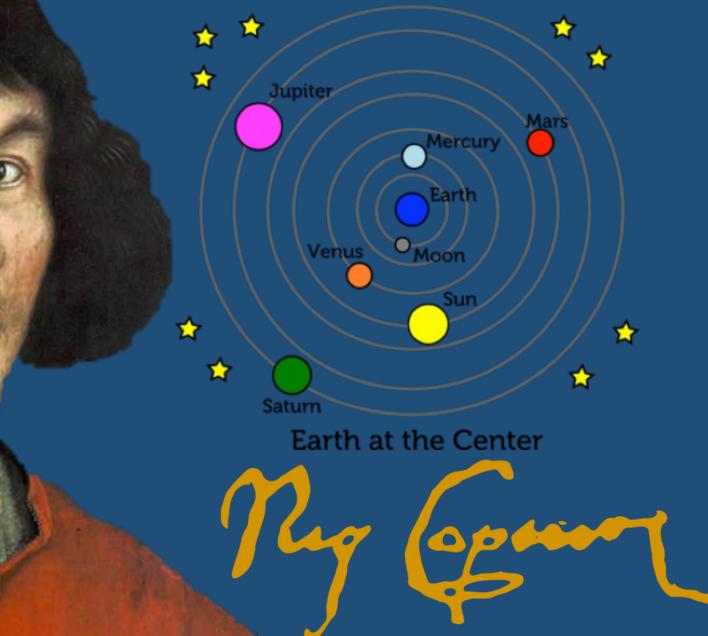
> Tantièm series juncturaque pollet, Tantièm de medio sumptis accedit honoris! HORAT.

TOME PREMIER.

THE GOAL OF AN ENCYCLOPEDIA IS TO ASSEMBLE ALL THE KNOWLEDGE SCATTERED ON THE SURFACE OF THE EARTH, TO DEMONSTRATE THE GENERAL SYSTEM TO THE PEOPLE WITH WHOM WE LIVE, & TO TRANSMIT IT TO THE PEOPLE WHO WILL COME AFTER US, SO THAT THE WORKS OF CENTURIES PAST IS NOT USELESS TO THE CENTURIES WHICH FOLLOW, THAT OUR DESCENDANTS, BY BECOMING MORE LEARNED, MAY BECOME MORE VIRTUOUS & HAPPIER, & THAT WE DO NOT DIE WITHOUT HAVING MERITED BEING PART OF THE HUMAN RACE.

SCIENTIFIC REVOLUTION MEET THE SCIENTISTS

BEFORE COPERNICUS:



AFTER COPERNICUS:



BEFORE KEPLER:

2



Jupiter

Sun at the Center

b: Koplerno

AFTER KEPLER:

AP OF THE SOLAR SYSTEM

BEFORE GALILEO: SOLIS



VENUS CIRCLED JUPITER HAD THE EARTH NO MOONS

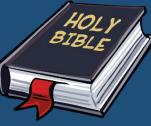
LIGHT OBJECTS SCIENCE

SUN WAS A **BRIGHT LIGHT**



OBJECTS FALL

FASTER THAN



AUTHORITY ON

HELIOCENTRISM **BIBLE WAS THE WAS "FOOLISH**

& ABSURD" (INQUISITION)



MOON IS A PERFECT SPHERE

SATURN HAD **NO RINGS**

THERMOMETERS DIDN'T EXIST

1000

AFTER GALILEO:



VENUS HAS PHASES



ALL OBJECTS FALL AT THE SAME SPEED

JUPITER HAD FOUR MOONS



BIBLE WAS THE AUTHORITY ON FACT MORALITY



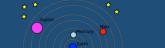


MOON HAS CRATERS, **MOUNTAINS**

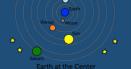
SATURN HAS **THERMOMETERS MASSIVE RINGS DO EXIST**



liks Galilei



SUN HAS SPOTS



HELIOCENTRISM WAS ACCEPTED

IN TERMS OF SCIENTISTS, THERE IS $n \leq w \leq n$ & THEN EVERYONE ELSE

- SOME OF HIS ACCOMPLISHMENTS: **INVENTED CLASSICAL MECHANICS (PHYSICS) AKA NEWTONIAN MECHANICS** WROTE PRINCIPIA LAWS OF MOTION GRAVITY **REMOVED ANY DOUBT ABOUT** HELIOCENTRIC CALCULATED THE SHAPE OF THE EARTH **OBLATE SPHEROID** CALCULATED SPEED OF SOUND **2X MEMBER OF PARLIAMENT** 2ND SCIENTIST TO BE KNIGHTED **NVENTED:** CALCULUS n. SPECTROSCOPY **NEWTONIAN FLUID**
 - I'M OUT OF ROOM...

MOST INFLUENTIAL PEOPLE OF ALL TIME:

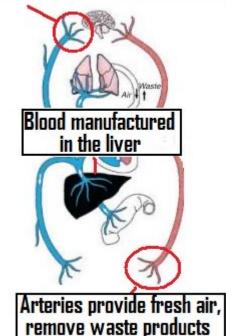
- 1. MUHAMMAD (PBUH)
- 2. <u>NEWTON</u>
- 3. JESUS
- 4. BUDDHA
- 5. CONFUCIUS
- 6. ST. PAUL
- 7. TS'AI LUN
- 8. GUTENBERG
- 9. COLUMBUS
- **10. EINSTEIN**
- **11. PASTEUR**
- 12. GALILEO
- **13. ARISTOTLE**
- 14. EUCLID
- 15. MOSES
- 16. DARWIN
- **17. QIN SHIHUANGDI**
- 18. AUGUSTUS C.
- **19. COPERNICUS**
- 20. LAVOISIER
- **21. CONSTANTINE**
- 22. JAMES WATT

(MICHAEL K HART'S THE 100)



BEFORE HARVEY:

Open-ended veins transport blood around the body providing nourishment to the tissues



and cool the body

GALEN (129-216 CE) STATED THAT THE HEART WAS THE HEAT CENTER OF THE BODY THAT WAS COOLED BY THE LUNGS...

THIS WAS ACCEPTED AS FACT FOR 1,500 YEARS...

DOCTORS PROCLAIMED THEY'D "RATHER ERR WITH GALEN THAN PROCLAIM THE TRUTH WITH HARVEY"

AFTER HARVEY:



AFTER HARVEY:

