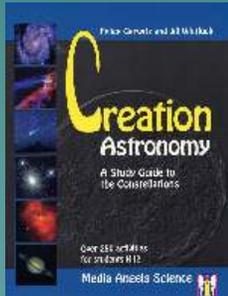




# The Heavens Declare the Glory of God



## Space Exploration and the Astronomers

<http://www.MediaAngels.com>

## Astronomy...

- Astronomy is the oldest science with a history
- The Oldest Scientists were Astronomers
- Classical Astronomy ancient course
- ◆ Ancient Men studied
- ◆ Specialized Topics



## The Greeks



- ◆ A Mathematician  
Pythagoras
- ◆ Great Thinkers
- ◆ Philosophy
  
- ◆ Wisdom of men is often folly...
  - JOB 9:6 He shakes the earth from its place and makes its pillars tremble.

**We must give glory ONLY to God the Creator of the Universe!**

## Leonardo da Vinci (1492-1519)

- ◆ Father of modern science
  - Studied many things...one was
    - ◆ Aeronautics... flight
  
- ◆ High moral character
  - (painted the Last Supper)

Self portrait by Leonardo

Great men were inspired by Almighty God!

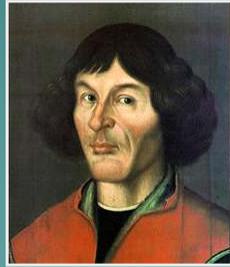


## Nicolaus Copernicus (1473-1543)

## Tyco Brache (1546-1601)

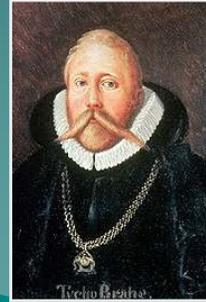
### ◆ Copernicus

- Polish Astronomer
- Explained planet movement around sun



### ◆ Brache

- Recorded the movements of the stars and planets

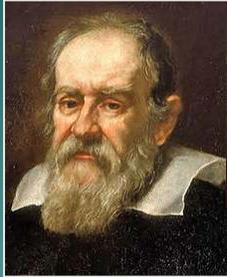


## Johannes Kepler (1571-1630)



- ◆ Founder of Physical Astronomy
  - Laws of Planetary Motion
- ◆ Christian and believed God used design and orderliness in Creation
- ◆ Improved telescope

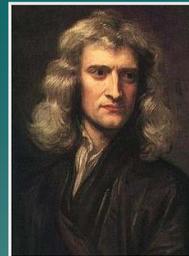
## Galileo Galilei (1564-1642)



- ◆ Astronomer
- ◆ Improved upon the telescope 30x
- ◆ Believed planets rotated around the sun
- ◆ First to see Saturn

Matthew 24:35 Heaven and earth will pass away, but my words will never pass away.

## Isaac Newton



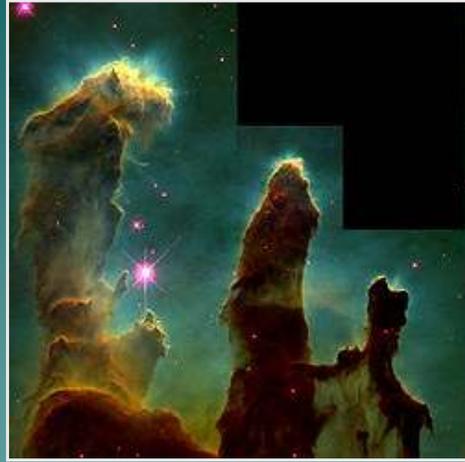
- ◆ 3-Laws of Motion
- ◆ Law of Energy
- ◆ Believed in a literal 6-day creation
  - "We account the Scriptures of God to be the most sublime philosophy. I find more sure marks of authenticity in the Bible than in any profane history whatsoever."

- ◆ Considered a Godly man and one of the greatest scientists





## Modern Astronomers



- ◆ Big Bang used to explain creation
- ◆ Christian Scientists believe Big Bang
- ◆ Some Christian Scientists believe God Created the world as stated in Genesis

**PSALM 8:3** When I consider your heavens, the work of your fingers, the moon and the stars, which you have set in place...



## Edwin Hubble 1920's

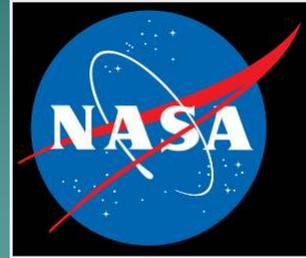


- ◆ Astronomer: stars shifted toward red
- ◆ Red-shift
- ◆ Concluded the universe is expanding
- ◆ Established Hubble constant
- ◆ Space telescope orbiting the earth named after Hubble
- ◆ Carried into orbit by Discovery in 1990

# NASA

- ◆ National Aeronautics and Space Administration

- Astronauts
- Study of Space
- Astronomers
- Many Scientists



## Space Exploration

- ◆ Early Rockets
- ◆ Robert Goodard
  - American scientist built first workable rocket
- ◆ V-1 and V-2
  - Dr. von Braun German scientist
  - Rockets built at the end of World War II
  - V stands for “vengeance”
  - Delivered explosive warhead against England from Germany (Hitler)



## Space Age: Race to be First

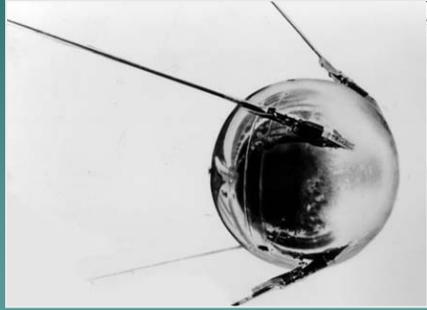
- ◆ Dr. von Braun
  - After World War II came to America in 1950's
  - Designed military rockets
  - Sputnik challenged space program
  - NASA began 1958
- ◆ Soviet Launch 1957 of Sputnik (Russian for satellite)
- ◆ Cold War Began



## Weapons race and Space

- ◆ 1950's
  - U.S. and the USSR (Russia) built the first hydrogen bombs
  - Carry bombs?
    - ◆ American used airplanes
    - ◆ Russians decided to use missiles

## Sputnik: Russian for Satellite



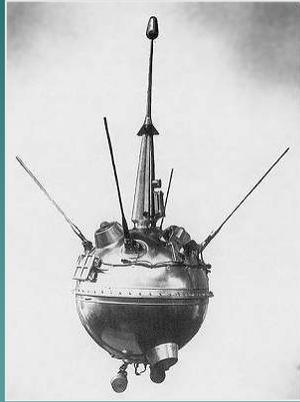
- ◆ Traveled 18,000 miles per hour
- ◆ Earth orbit in 96.2 minutes
- ◆ Signals for 22 days
- ◆ Burned up on Jan. 4, 1958

## Race was on...

- ◆ Russians (USSR) launched another Sputnik
- ◆ President Eisenhower approved space program
- ◆ Army and Navy
- ◆ NASA

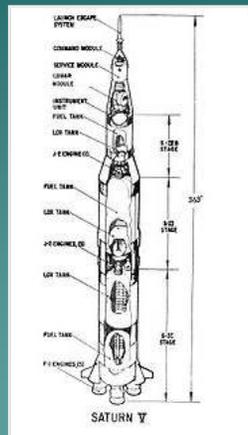


## Space Craft to Moon



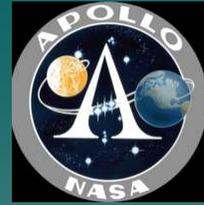
- ◆ Luna -2
- ◆ Russia (Soviet Union)
- ◆ First craft to reach moon
- ◆ Crashed on the surface

## 1960 Saturn V Rocket



- ◆ 3-stage rocket
- ◆ Apollo rockets were Saturn rockets
- ◆ Apollo 11 was Saturn V

## Apollo



- ◆ Mission to land on the moon
- ◆ Survey of the lunar surface
- ◆ Dr. von Braun in charge of mission became a Christian
- ◆ Christmas Eve 1968:
  - “In the beginning God created the heaven and the earth...”

## Space Travel





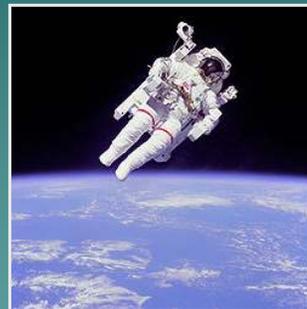
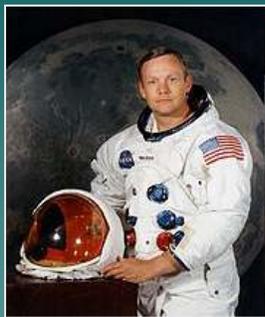
## First Astronauts in Space...

- ◆ Yuri Gargarin Vostok
  - April 1961
- ◆ Alan Shepard
  - May 1961 and Moon:1971



## Astronauts

- ◆ Neil Armstrong
  - First Man in Space
- ◆ Bruce McCandless II
  - Manned Maneuvering Unit



## More Famous Astronauts

- ◆ John H. Glenn
  - First American to orbit the earth
- ◆ Apollo 11 Crew
  - Michael Collins
  - Neil Armstrong
  - Edwin Aldrin

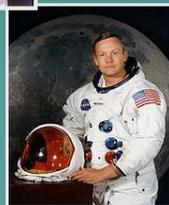
John Glenn



Michael Collins



Edwin "Buzz" Aldrin



Neil Armstrong



## Apollo 11



That's one small step for man, one giant leap for mankind.

# Space Shuttles



- ◆ Space Transportation System: Until 2010
- ◆ Carries Astronauts and payload (satellites, parts for space station and supplies)
- ◆ 5-7 crewmembers

Psalm: 19:1 The heavens declare the glory of God; the skies proclaim the work of his hands.

# Fun Facts



- ◆ The Hubble Telescope is the only one designed to service by astronauts in space!
- ◆ Astronauts are about 2 inches taller in space because there is no gravity, their spines are not compressed
- ◆ Astronauts eat food that doesn't easily float away...like peanut butter!
- ◆ Astronauts sleep by attaching themselves to their seats, or their bunks or a wall!
- ◆ The space suits worn by the astronauts that walked on the moon weighed 180 pounds on Earth but only 30 pounds on the moon.
- ◆ During weightlessness, the fluids in the body tend to rise to the head, which feels like a constant head cold.
- ◆

# Kids Yahoo Group

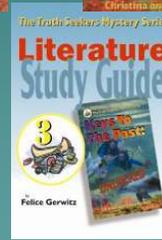
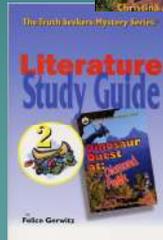
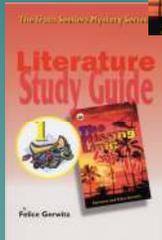
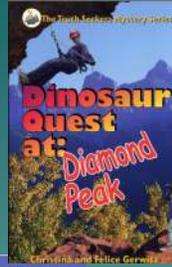
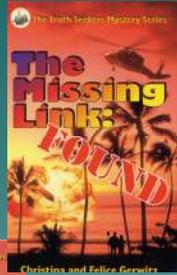
- ◆ Post Questions to the Group
- ◆ Visit to chat
- ◆ Meet like-minded friends
  
- ◆ Email me for an invitation
  - It is a closed group
    - ◆ felice@mediaangels.com

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