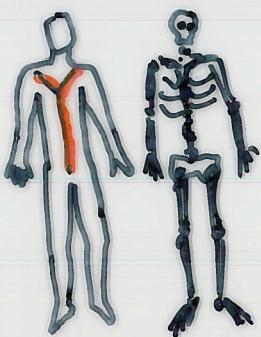




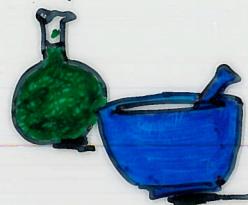
heliocentric  
universe  
**COPERNICUS**  
(1473-1543)



**ANDREAS VESALIUS**  
(1514-1574)  
dissection/anatomy

# SCIENTIFIC REVOLUTION

IN  
EUROPE  
(1600-1750)



**P.A. PARACELSUS**  
a (1493-1541)  
alchemist/medicines

COMBINES  
MATHEMATICS  
AND  
EXPERIMENTATION



**GALILEO GALILEI**  
(1564-1642)  
astronomy, telescope,  
gravity, microscope



**JOHANNES KEPLER**  
(1571-1630)  
movements of  
planets

The universe  
is an extension  
of an absolute  
God.



MEDIEVAL  
SCHOLAR

The universe is  
a mechanism  
which operates  
according to its  
own laws.



SCHOLAR  
DURING SCIENTIFIC REVOLUTION



★ CIRCULATION  
OF  
THE BLOOD

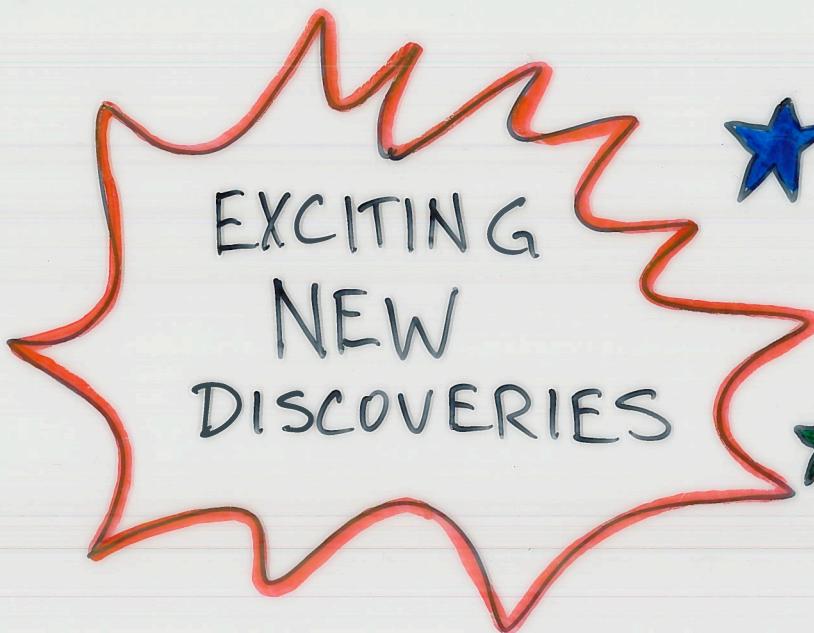
★ MICROSCOPE  
(protozoa)

★ MERCURY  
BAROMETER

★ SLIDE RULE

★ AIR  
PUMP

★ MAGNET  
(LOADSTONE)



★ ANALYTIC  
GEOMETRY

★ IDEA OF  
REFRIGERATION  
TO PRESERVE  
FOOD

★ ACCURATE  
PENDULUM  
CLOCK

★ TRIGONOMETRY  
AND  
CALCULUS

I like empirical method, objectivity, observation and record-keeping.

RELIGION + SCIENCE NEED TO BE SEPARATE.

COGITO  
ERGO  
SUM

(I think, therefore I am!)

HOW DO I  
KNOW WHAT  
I KNOW?



RENE  
DESCARTES  
(1596-1650)

DEDUCTIVE  
REASONING

FROM  
GENERAL  
PREMISES  
TO SPECIFIC  
TRUTHS

FOUNDER OF  
MODERN PHILOSOPHY

(CARTESIAN DUALISM)



FRANCIS  
BACON  
(1561-1626)

INDUCTIVE  
REASONING

FROM EVIDENCE  
+ OBSERVATION OF  
SPECIFICS TO  
GENERAL  
CONCLUSIONS OR  
AXIOMS

# SCIENCE → ART

## DUTCH PAINTING

★ OBSERVATION  
AND  
ATTENTION  
TO DETAIL ★

INFLUENCES

- STILL LIFE (vanitas)
- PORTRAITS
- LANDSCAPES
- GENRE PAINTINGS

## STILL LIFE PAINTING

- RACHEL RUYSCH
- JAN DAVIDSZ STEEN
- MARIA VAN OOSTERWYCK



## DUTCH PORTAITURE SINGLE + GROUP

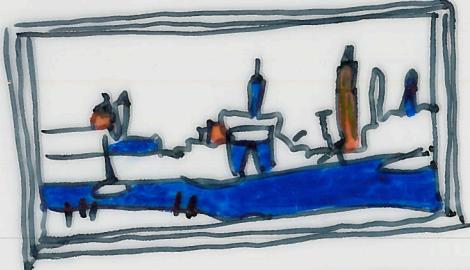
- FRANS HALS
- JUDITH LEYSTER
- REMBRANDT



## LANDSCAPE PAINTING

SOME PAINTERS USED CAMERA LUCIDA

- JAN VERMEER



## GENRE PAINTING SCENES OF EVERYDAY LIFE

- PIETER DE HOOCH



↑ A FAMILY MAKING MUSIC