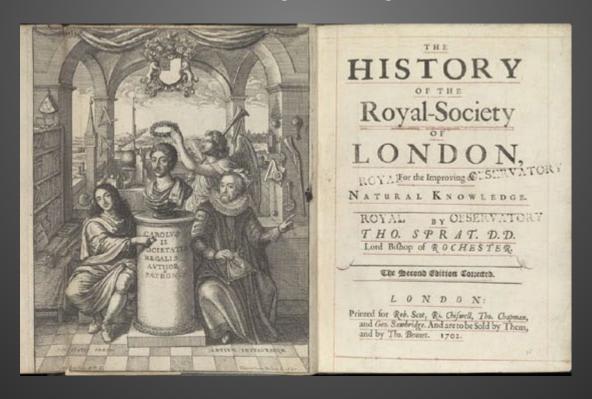
1667 AND THE ROYAL SOCIETY

A MANIFESTO FOR THE FUTURE

Dr Patricia Fara Clare College, Cambridge



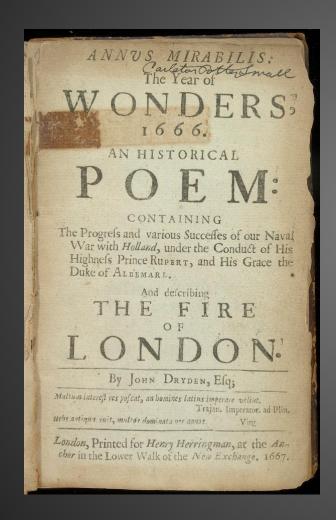


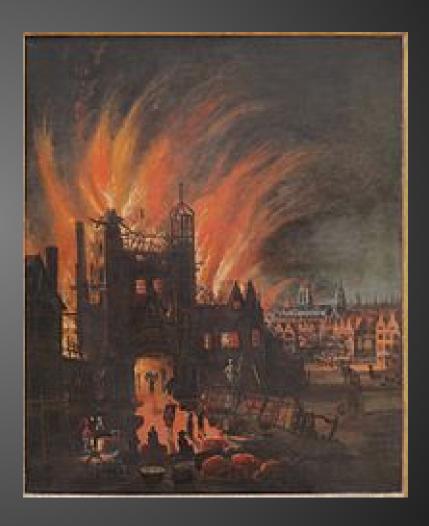
1666



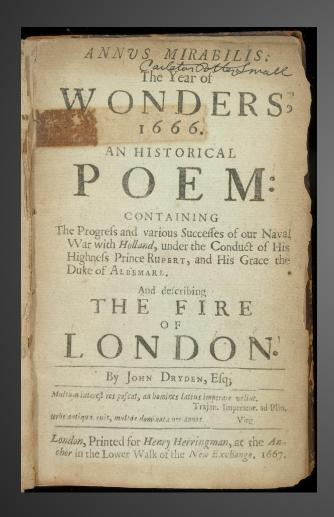
hath biderstanding, count the number of the beast: for it is the number of a man, and his number is, sire hundred threescore and sire.

John Dryden, 1667





John Dryden, 1667



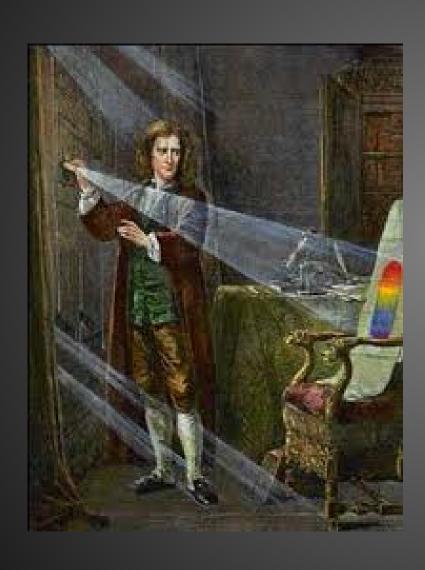
Me-thinks already, from this Chymick flame,

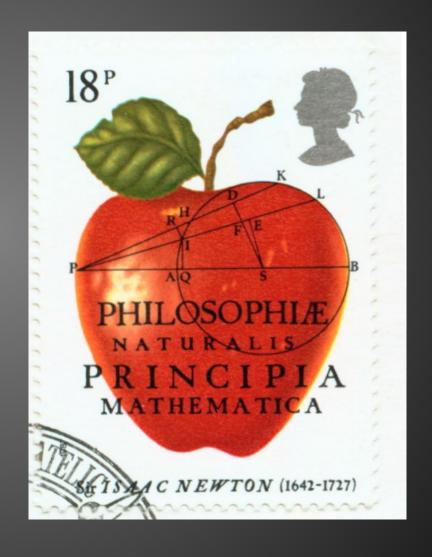
I see a city of more precious mold:

Rich as the town which gives the Indies name,

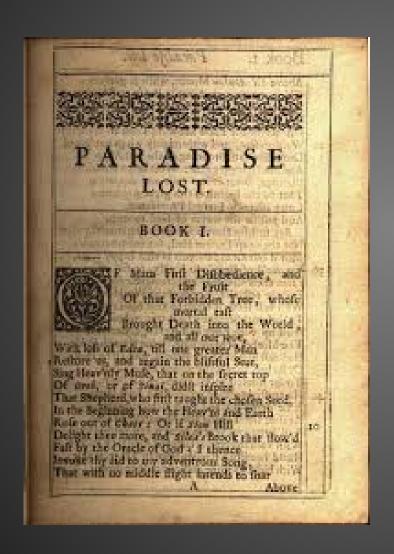
With Silver pav'd, and all divine with Gold.

Isaac Newton, 1666-7



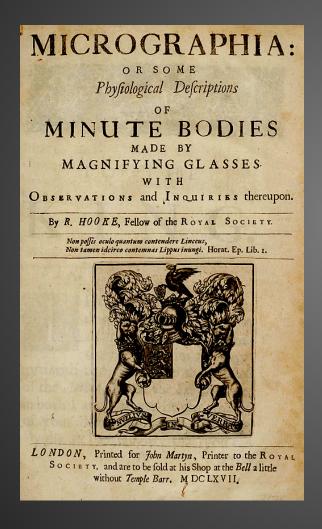


John Milton, 1667

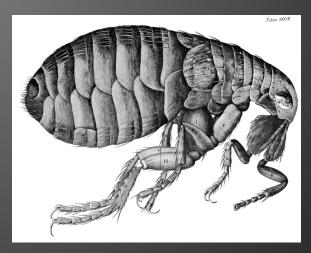




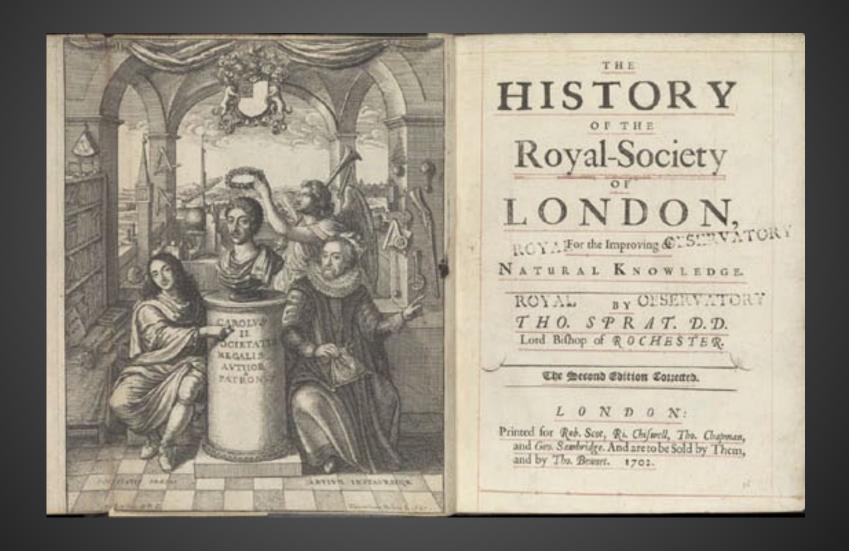
Robert Hooke, 1667







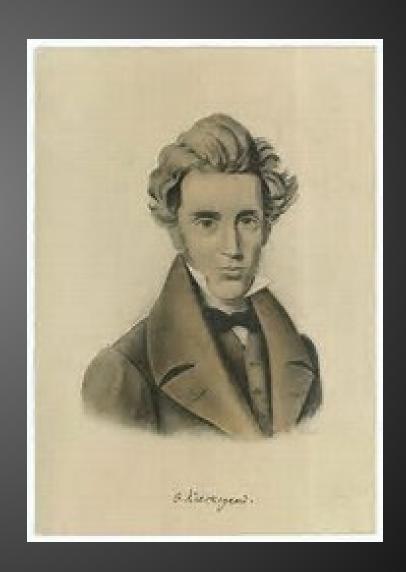
Thomas Sprat, 1667



Søren Kierkegaard

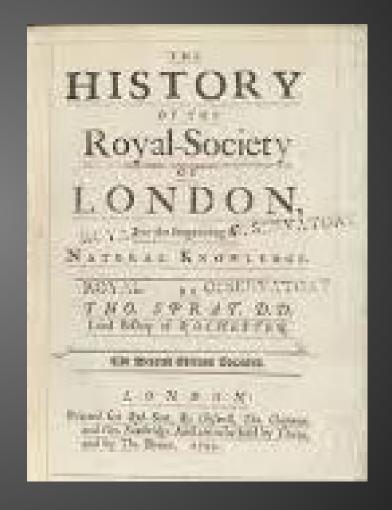
'Life can only be understood backwards; but it must be lived forwards.'

Journals and Papers, 1843



Thomas Sprat (1635-1713)





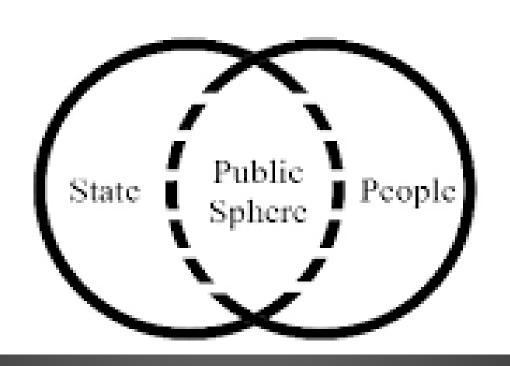
Battle of Naseby, 1645



1660 Restoration



Jürgen Habermas (1929-)



German: 1962

English: 1989

Parliament



Theatres



Coffee houses



Scholarly societies

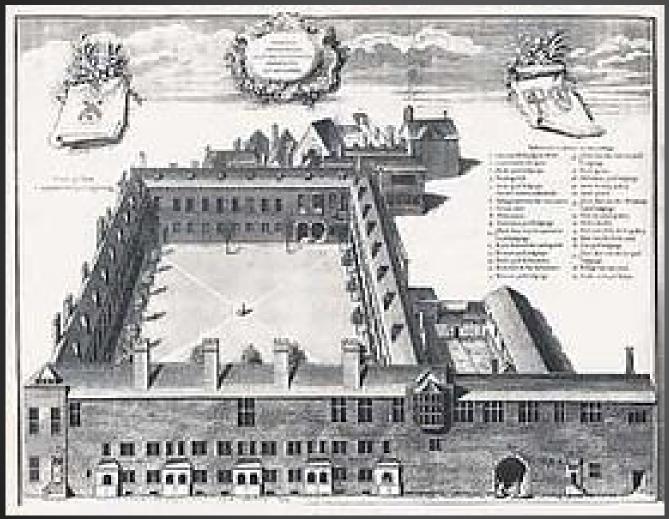


1660 Oxford to London





Gresham Professor of Astronomy





Royal Charter 1662





Samuel Pepys, 1664



Charles II spent... 'an hour or two laughing at Sir W. Petty...about his boat; and at Gresham College in general...for spending time only in weighing of ayre, and doing nothing else since they sat.'

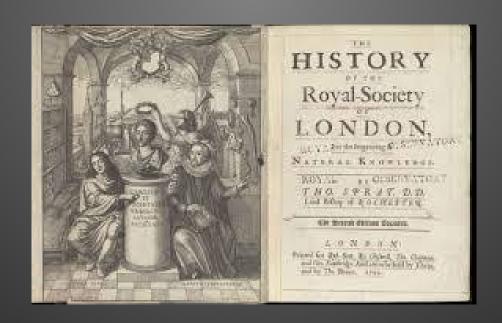
Thomas Sprat (1635-1713)



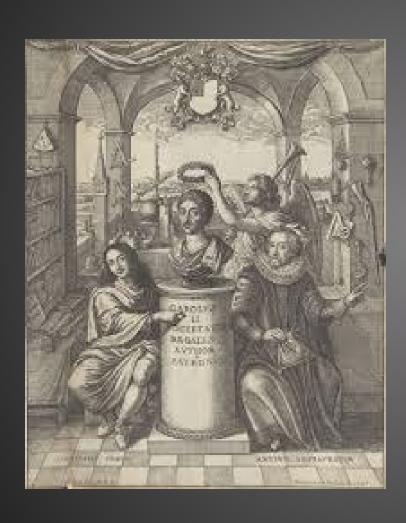


1667 AND THE ROYAL SOCIETY

SCIENCE AND SOCIETY A GLOBAL EMPIRE

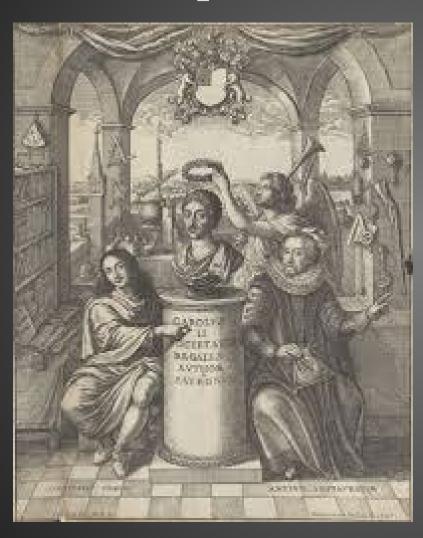


1. SCIENCE AND SOCIETY





Sprat's Frontispiece



CAROLUS
II
SOCIETATIS REGALIS
AUTHOR
&
PATRONUS



William Brouncker



$$\frac{4}{\pi} = 1 + \frac{1^2}{2 + \frac{3^2}{2 + \frac{5^2}{2 + \frac{7^2}{2 + \frac{9^2}{2 + \cdots}}}}}$$

THE ROYAL SOCIETY



From these and all long Errors of the way,

In which our wandring Prædecessors went...

Bacon, like Moses, led us forth at last.

FRANCIS BACON, 1561-1626





FRANCIS BACON, 1561-1626

1581 Elected MP

1603 Knighted

1618 Lord Chancellor

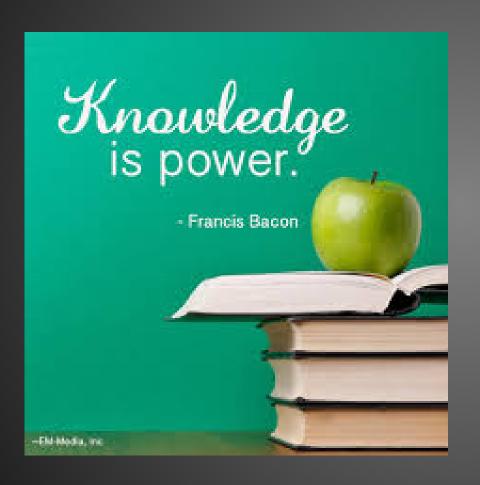
1621 Disgraced

1620

The Great Instauration

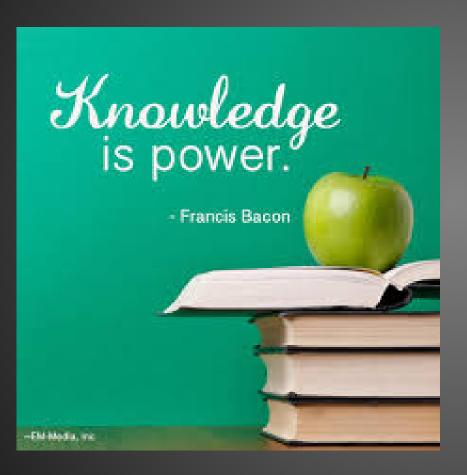


The Great Instauration (1620)



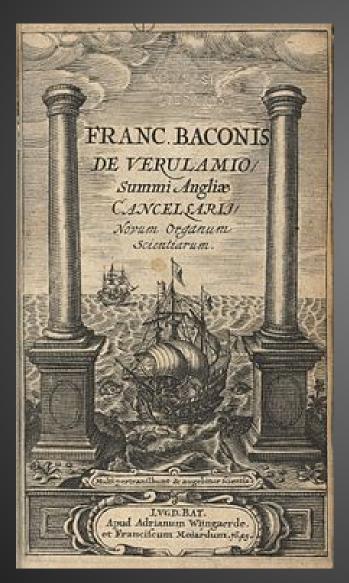
'...a way must be opened for the human understanding entirely different from any hitherto known...'

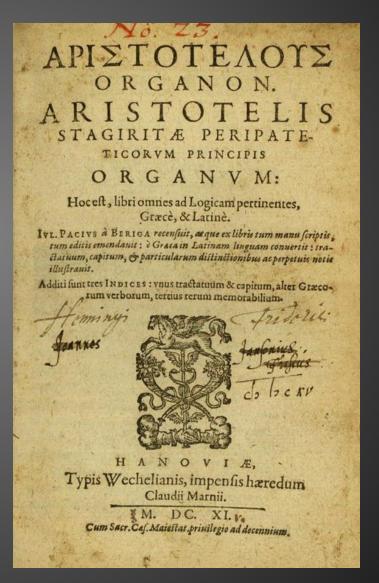
The Great Instauration (1620)



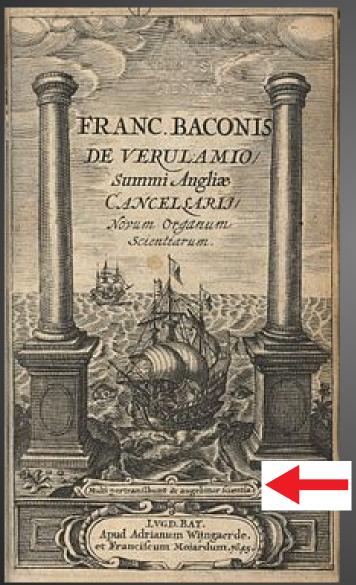
'...a way must be opened for the human understanding entirely different from any hitherto known...in order that the mind may exercise over the nature of things the authority which properly belongs to it.'

Novum Organum (1620)



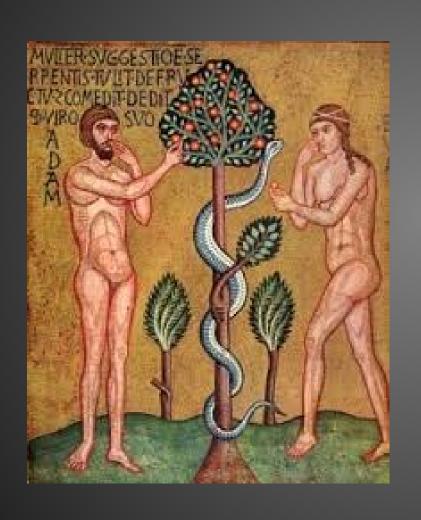


Observation and Experiment



'Many will travel and knowledge will be increased'

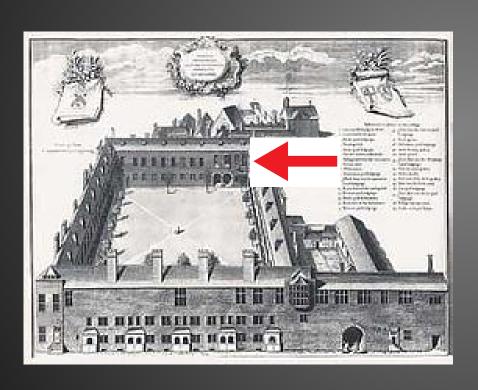
Observation and Experiment



'...even the forces of our own minds conspire to betray us... remedies can only proceed from the real, the mechanical, the experimental Philosophy...'

Robert Hooke

Robert Hooke Gresham Professor of Geometry RS Curator of Experiments





Three types of instrument





Mathematical instruments

'A new kind of *Pendulum*Clock, wherein the
Pendulum moves circularly,
going with the most simple,
and natural motion, moving
very equally, and making no
kind of noise.'



(Sprat)

Mathematical instruments





Optical instruments





Robert Hooke *Micrographia* (1665/7)

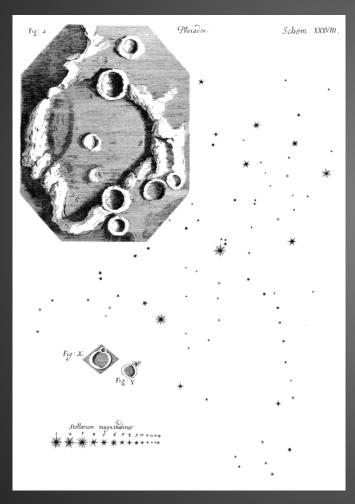
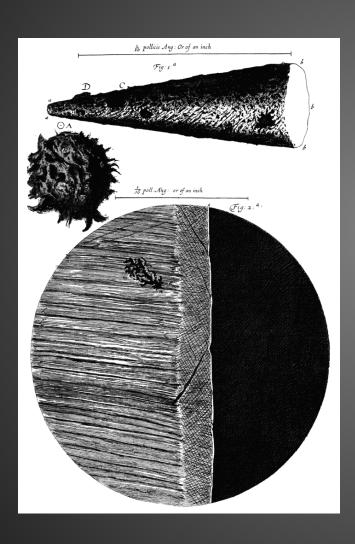


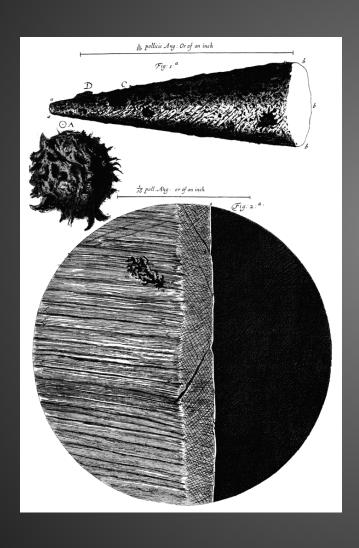
Fig. X
Johannes Hevelius

Fig. Y Giovanni Riccioli

Hooke's first plate



Hooke's first plate



Needle

Full stop

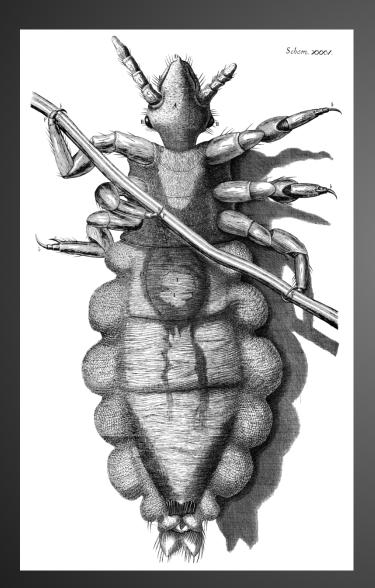
Razor

Ant



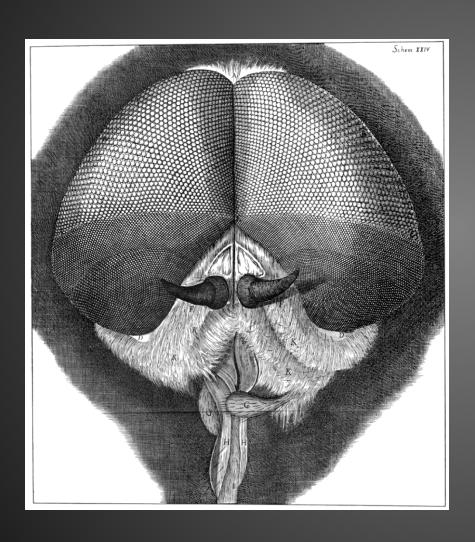
'This was a creature, more troublesome to be drawn, than any of the rest.'

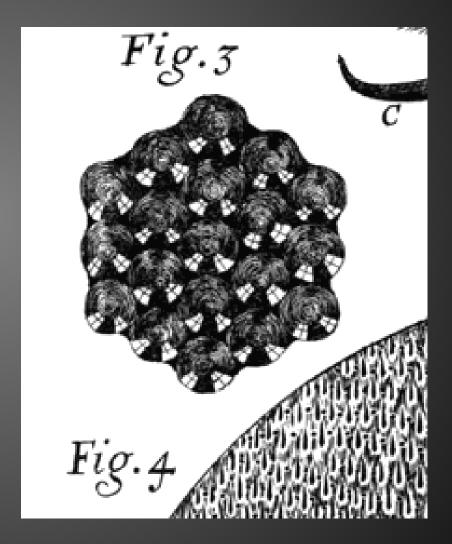
Louse



'...it is troubled at nothing so much as at a man that scratches his head, as knowing that man is plotting and contriving some mischief against it...'

Eyes of a fly





Philosophical instruments

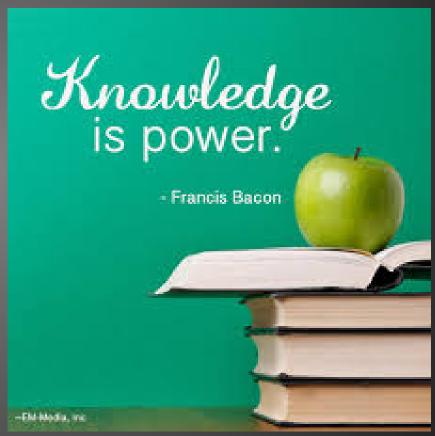


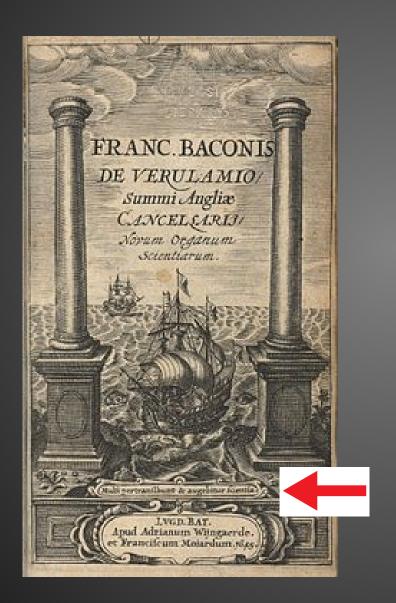


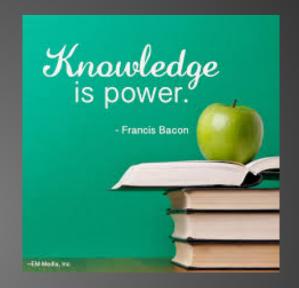


2. A GLOBAL EMPIRE



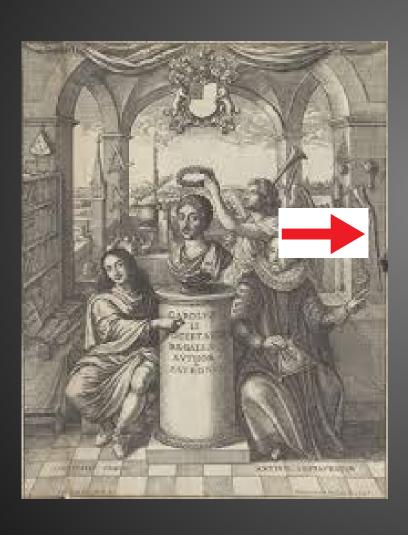






'Many will travel and knowledge will be increased'

Gun



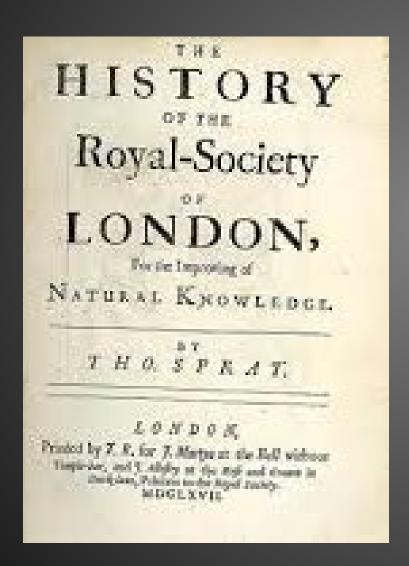


Longitude Clock





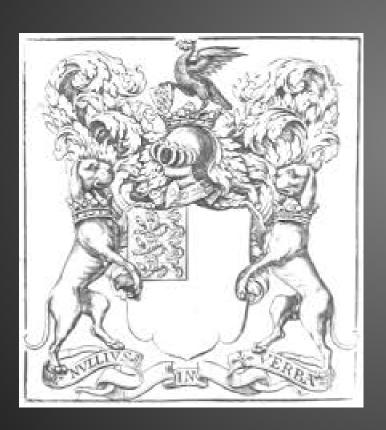
Twin Sisters



...the Foundation of the Royal Company: to which as the Twin-Sister of the Royal Society, we have reason as we go along, to wish all Prosperity. In both these Institutions begun together...

Twin Sisters

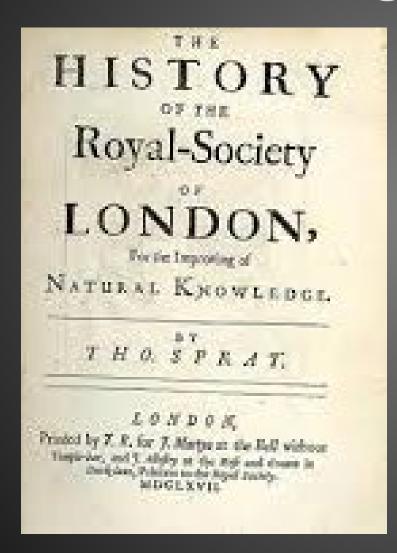
Royal Society



Royal Adventurers Trading into Africa



The Company of Royal Adventurers Trading into Africa



...In both these Institutions begun together, our King has imitated the two most famous Works of the wisest of antient Kings [Solomon]: who at the same time sent to Ophir for Gold, and compos'd a Natural History, from the Cedar to the Shrub.'

1663 charter

'...shall for ever hereafter have use and enjoy all mines of gold and silver which are or shall be found in all or any the places above mentioned, and the whole entire and only trade [to those parts] for the buying and selling bartering and exchanging of for or with any negroes slaves good wares and merchandises whatsoever to be vented or found at or within any of the Cities.'





Cape Coast Castle



Elephant & Castle





Company returns in 1665

• Gold £20),()(J
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- People £100,000
- Ivory, wood, spices etc £100,000

Philosophical Transactions, 1667

(472)

usually live, contrary to what is believed to happen in other Countries?

15. To take an Account of the Wooden Locks there, which are faid to be made with as great Art, as those of Iron, with us.

16. To observe the Course of the Waters, both of the Mediterranean, and the Red-Sea?

Inquiries For Guiny, by Abraham Hill Esq;

I. V Hether the River Niger overflows the Countrey yearly, like Nilus?

2. Whether the Rain, when it falls, be often very hot, rotting the Cloaths, if not presently dryed, and breeding Worms in them?

3. Whether the Gold there, be of very different fineness, and that which is uppermost in the Mine be the finest?

4. Whether the Palm affords them Wine, Oyl, Vinegar, Soap, Bread; and out of the Leaves they pick Threds, making thereof very curious Works:

5. Whether they have, besides their Palm-Wine, a Drink made of Grain, like our Ale? What Grain that is, and how prepar'd?

6. Whether their Arrows, they make, be poylonous: By what Tree, and how prepar'd:

7. Whether some People on the River Gambra, be only Tawny, as others very Black?

8. Whether the Negroes have fuch that p fights, that they discover a Ship at Sea much farther off, than the Europeans can?

9. VV hat Reason there is to conclude, That the Common People being accustomed to drink VV ater, is the cause, that they are troubled with VV orms in their Bodies, very painful to them, and difficult to get out?

FINIS.

In the SAVOY,

Printed by T. N. for John Martyn at the Bell, a little without Temple-Bar, Printer to the Royal Society, 1667.

1667: Merchant Petition

'That formerly there hath always been a freedom of Trade for all His Majesties Subjects for *Negroes* on the whole coast of *Guiney*, by reason whereof the said Plantations have been plentifully supplied with *Negroes* of the best sort, and at an indifferent rate, to the great encrease of the said Plantations, and the advantage and profit of this Crown and Nation.'

1667: Thomas Sprat



Gentlemen...

'are to know, that *Trafic*, and *Commerce* have given mankind a higher degree than any title of *Nobility*, even that of *Civility*, and *Humanity* itself...in those Coasts, whither the greatest Trade shall constantly flow, the greatest *Riches*, and *Power* will be establish'd.'