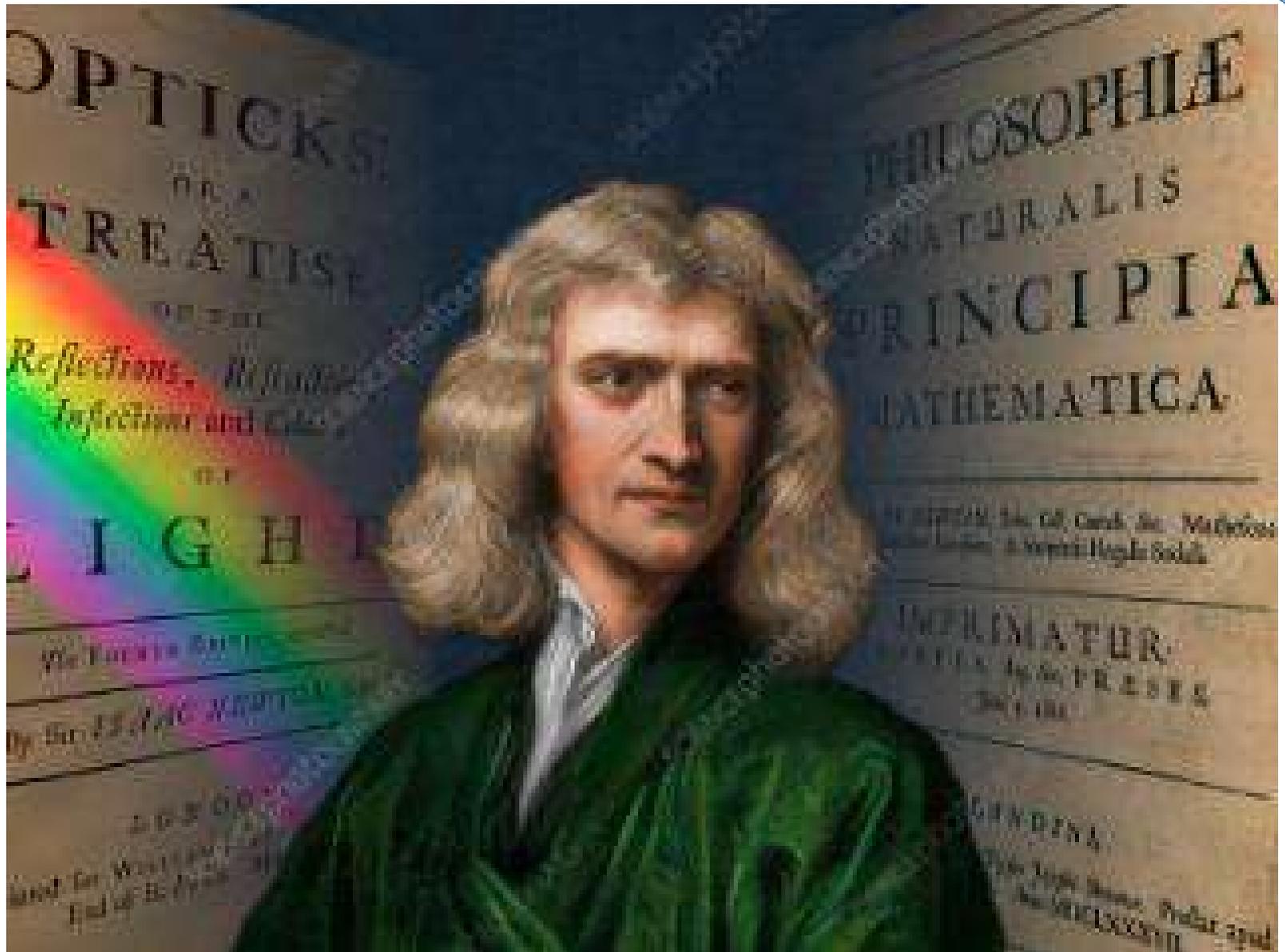


Newton and His Laws



OPTICKS

OR A
TREATISE

OF THE
Reflections, Refractions,
Inflexions and Colours

OF
LIGHT

PHILOSOPHIÆ
NATURALIS

PRINCIPIA

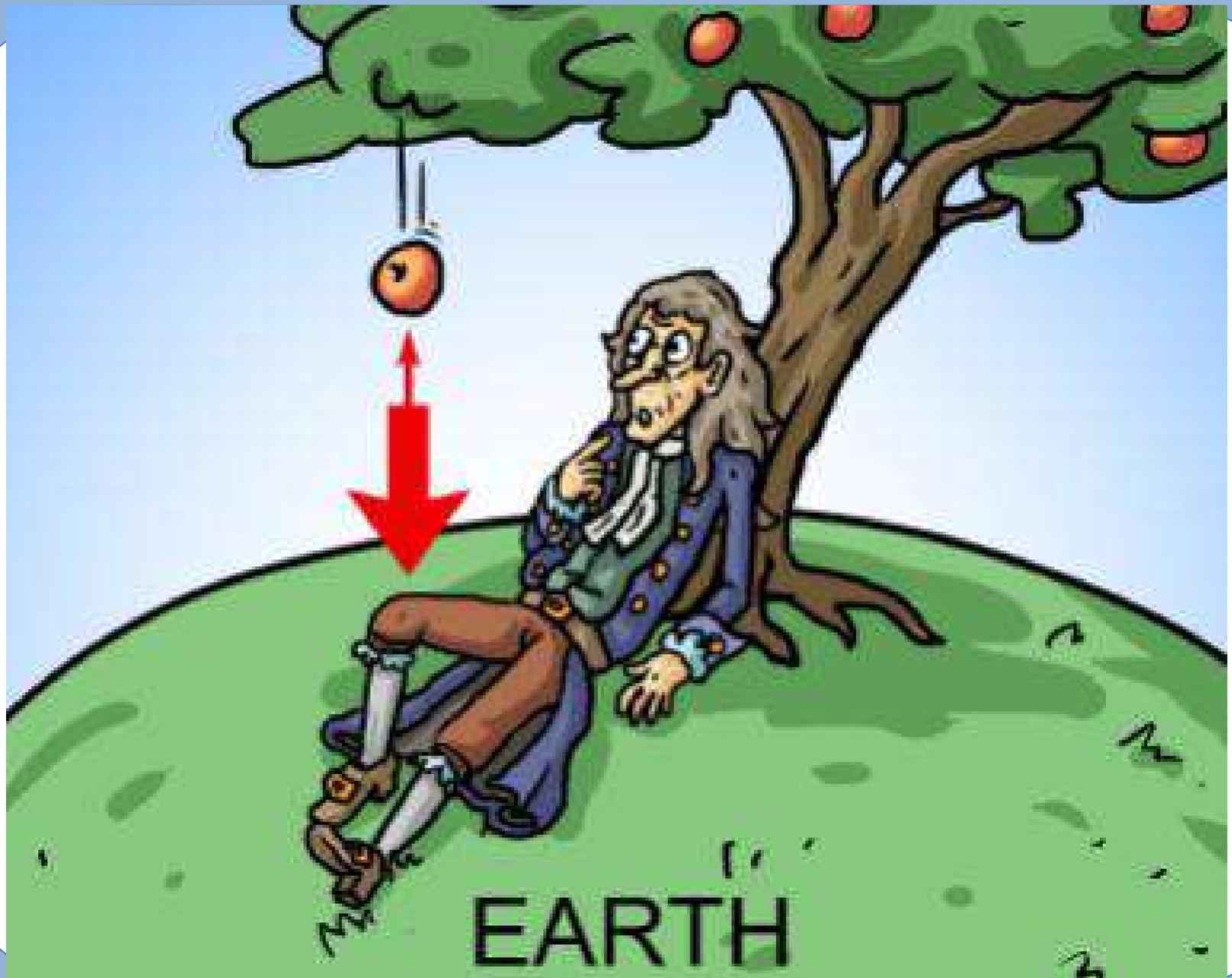
MATHEMATICA

WILLIAM BASTARD, Typographus, in Curia Cantuariensi, & Typographus Regiæ Societatis

IMPRESSE
IN ANGLIÆ REGN

LONDINA

1687





$$\lim_{x \rightarrow a} f(x)$$

1. Explain Newton's First Law of Motion in your own words.



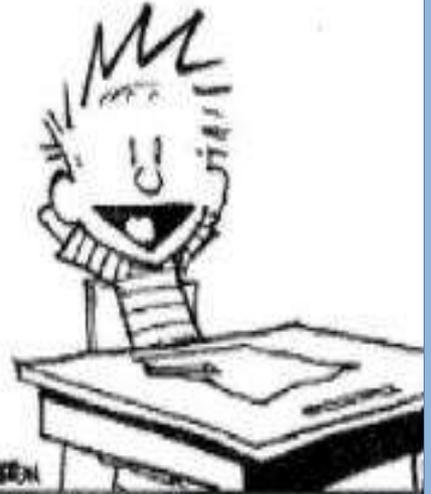
!



YAKKA FOOB MOG, GRUG
PUBBAWUP ZINK WATTOOM
GAZORK. CHUMBLE SPUZZ.



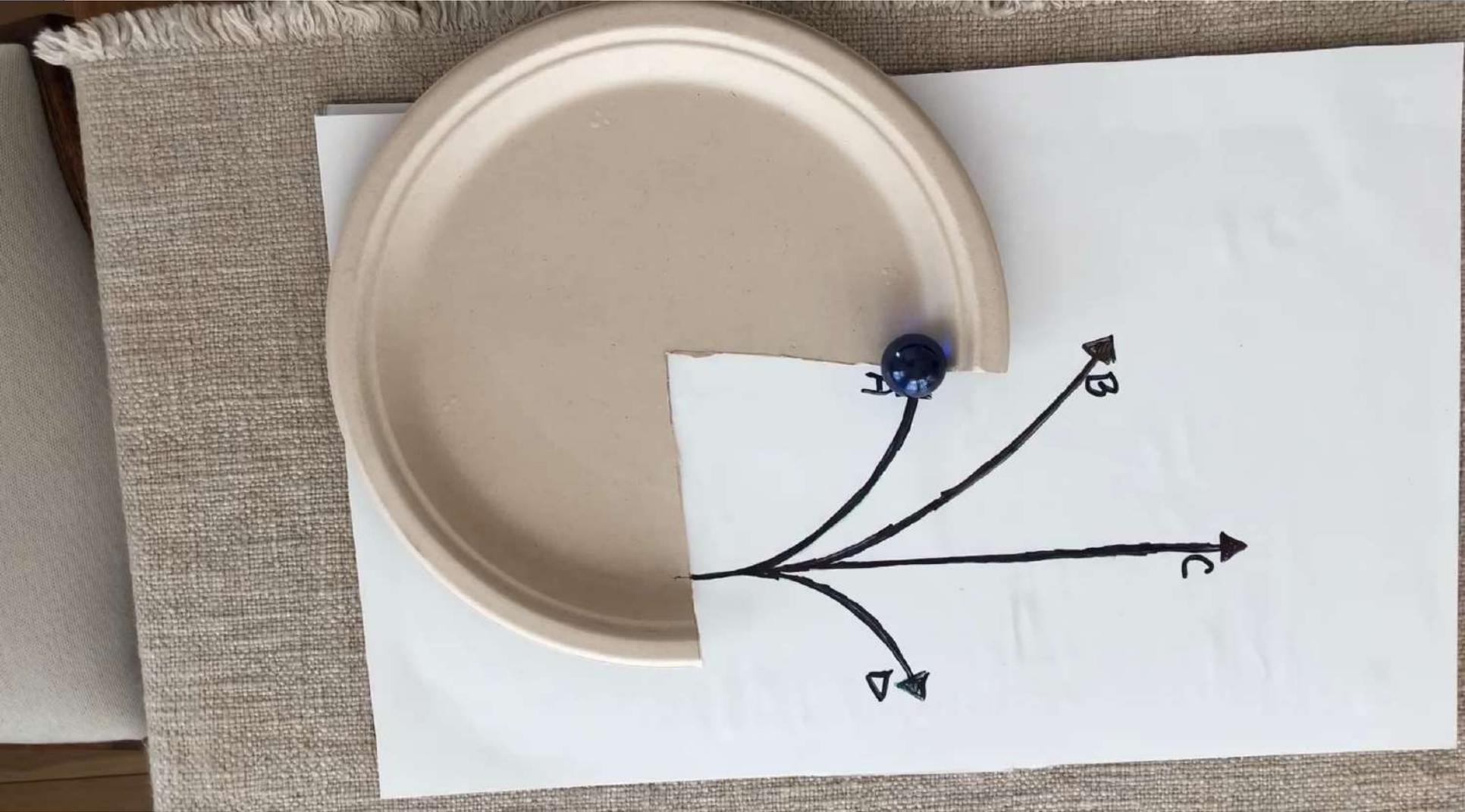
I LOVE
LOOPHOLES.













$F = Ma \rightarrow a = \frac{F}{M}$

$d = R \alpha$
 $v^2 = 2ad$

$R = \frac{v^2 \sin(2\theta)}{2g} \left(1 + \sqrt{1 - \frac{2\Delta h g}{v^2 \sin^2 \theta}} \right)$

$M = 0.1 \text{ kg}, g = 9.8 \text{ m/s}^2$
 $\Delta h = 0.5 \text{ m}, R = 8 \text{ m}, \theta = \frac{\pi}{4}$
 $\lambda = 0.5 \text{ m}, \alpha = \frac{\pi}{4}$

$\therefore F = \dots$

APPEND 1-8

POW!

www.foxtrial.com

PHYSICISTS ALWAYS LOSE SNOWBALL FIGHTS.

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$$F = ma$$

a better way to look at it is

$$a = F / m$$

ACCELERATION is DIRECTLY PROPORTIONAL
to the FORCE
and INVERSELY PROPORTIONAL
to the MASS

RAINY MORNING is a lab activity that is designed to address the NGSS standard MS-PS2:

Students who demonstrate understanding can:

Apply Newton's Third Law to design a solution to a problem involving the motion of two colliding objects.* [Clarification Statement: Examples of practical problems could include the impact of collisions between two cars, between a car and stationary objects, and between a meteor and a space vehicle.] [*Assessment Boundary: Assessment is limited to vertical or horizontal interactions in one dimension.*]















ISAACI NEWTONI EQ. AUR. BRIT.

Etiam in

1703. 1704. 1705.

Præfatio
1714

R. Robinson
F. 1704

1714

PHILOSOPHIÆ

NATURALIS

PRINCIPIA

MATHEMATICA.

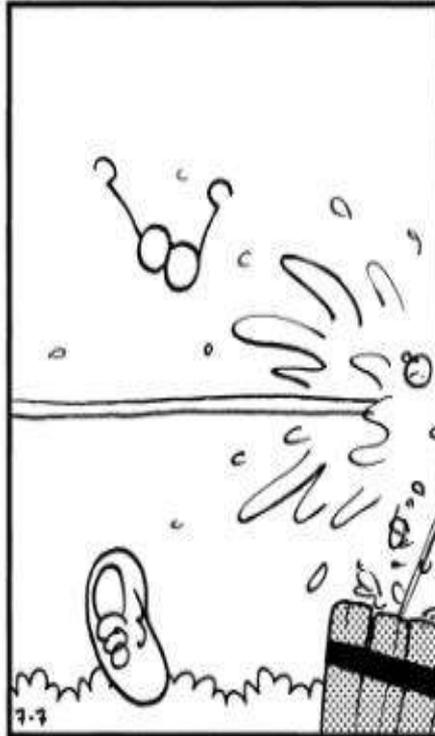
AUCTORE

ISAACO NEWTONO, EQ. AUR.

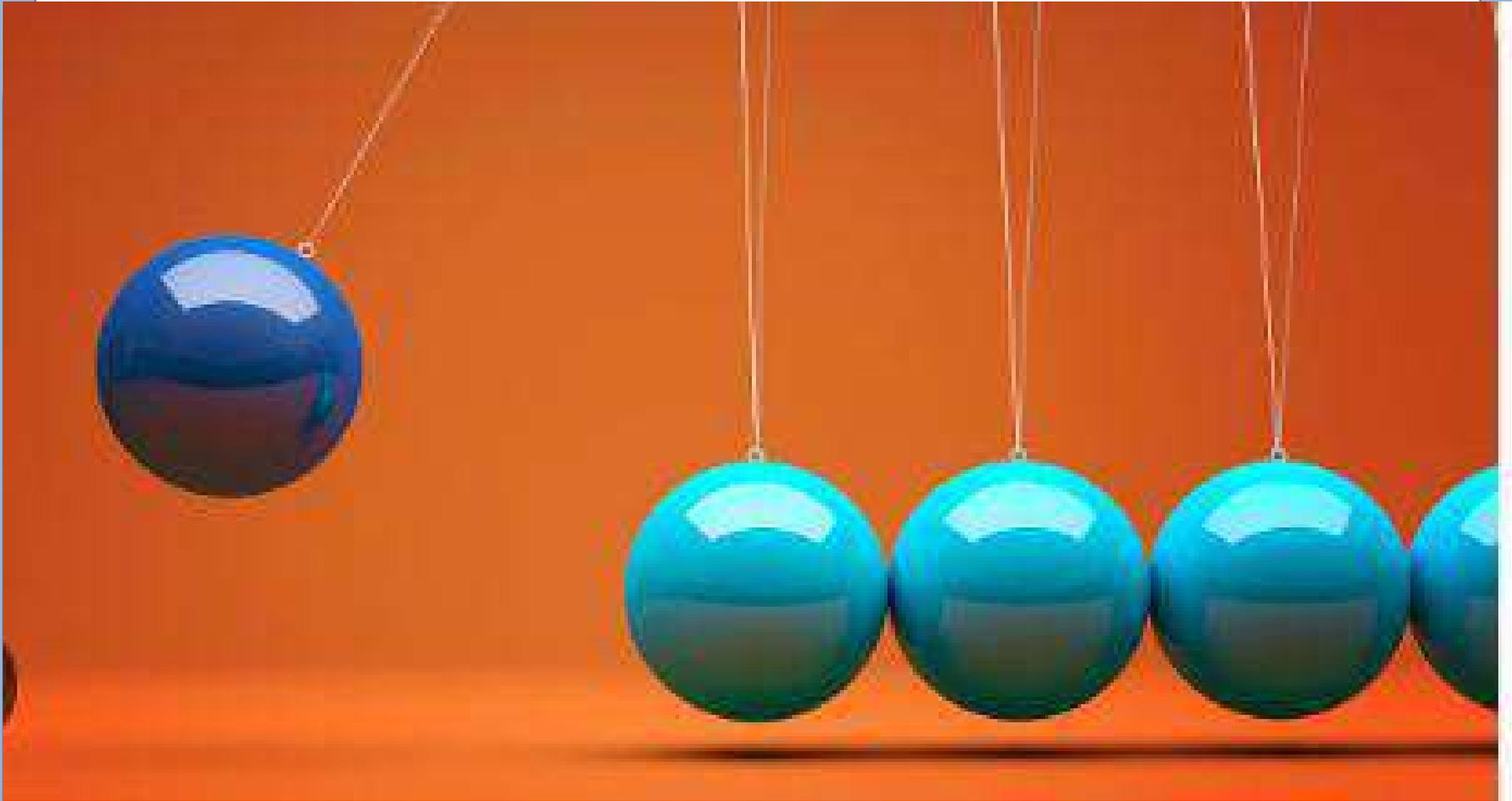
Ëditio tertia mûta & emendata.

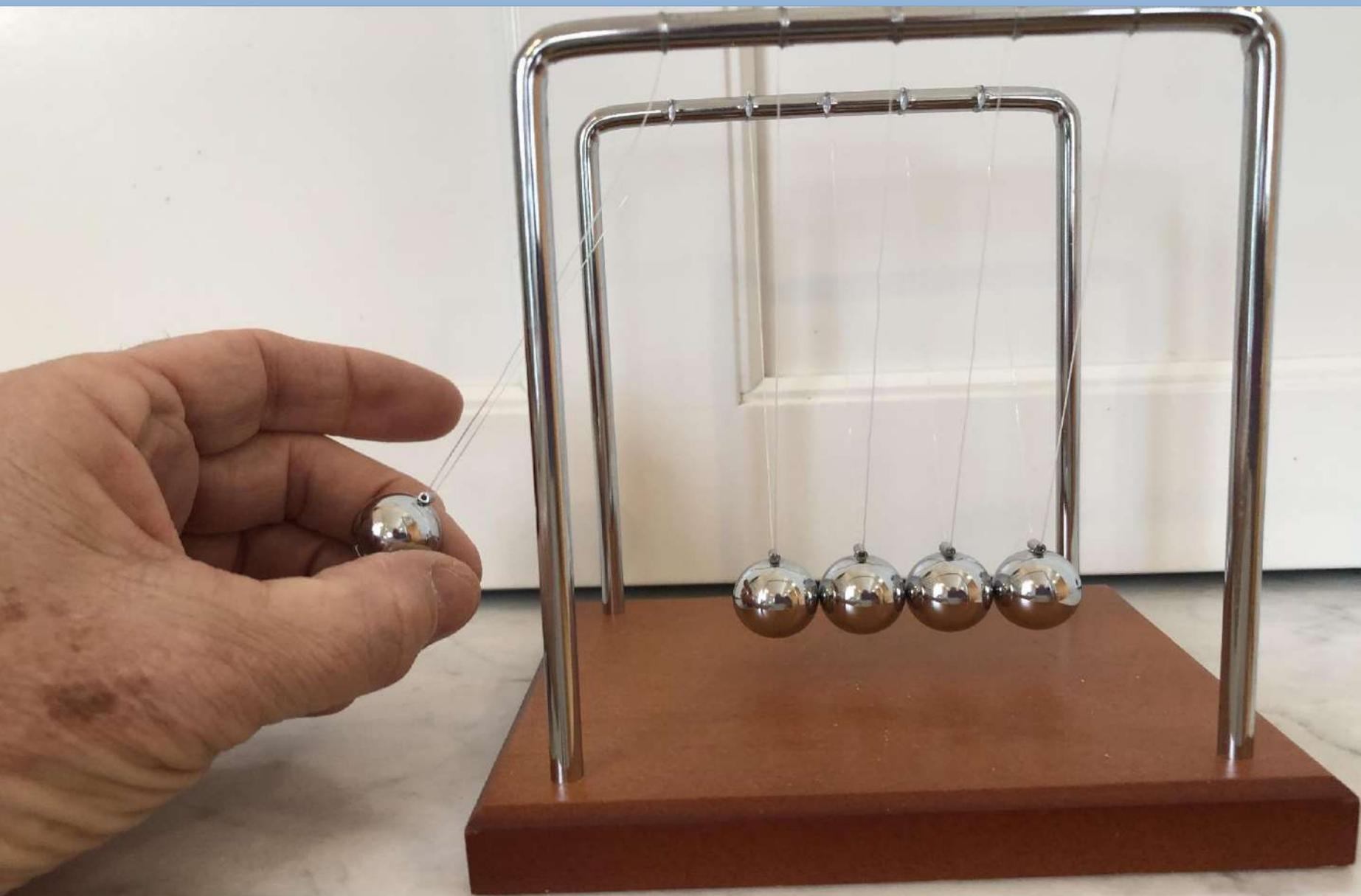
LONDINI

Apud GREG. & JOH. DENT, Regiæ Societatis typographos.
MDCCLXXVI.



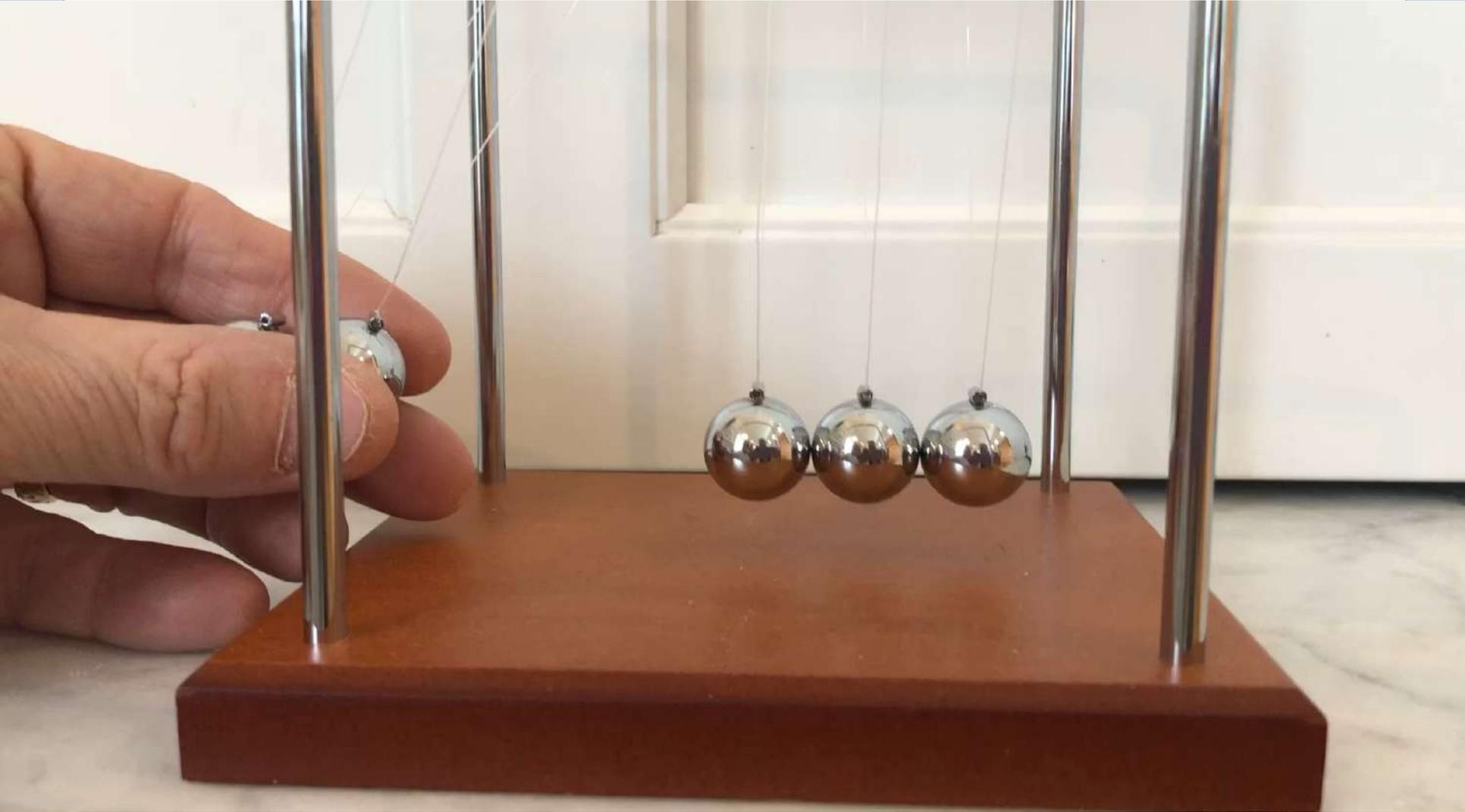
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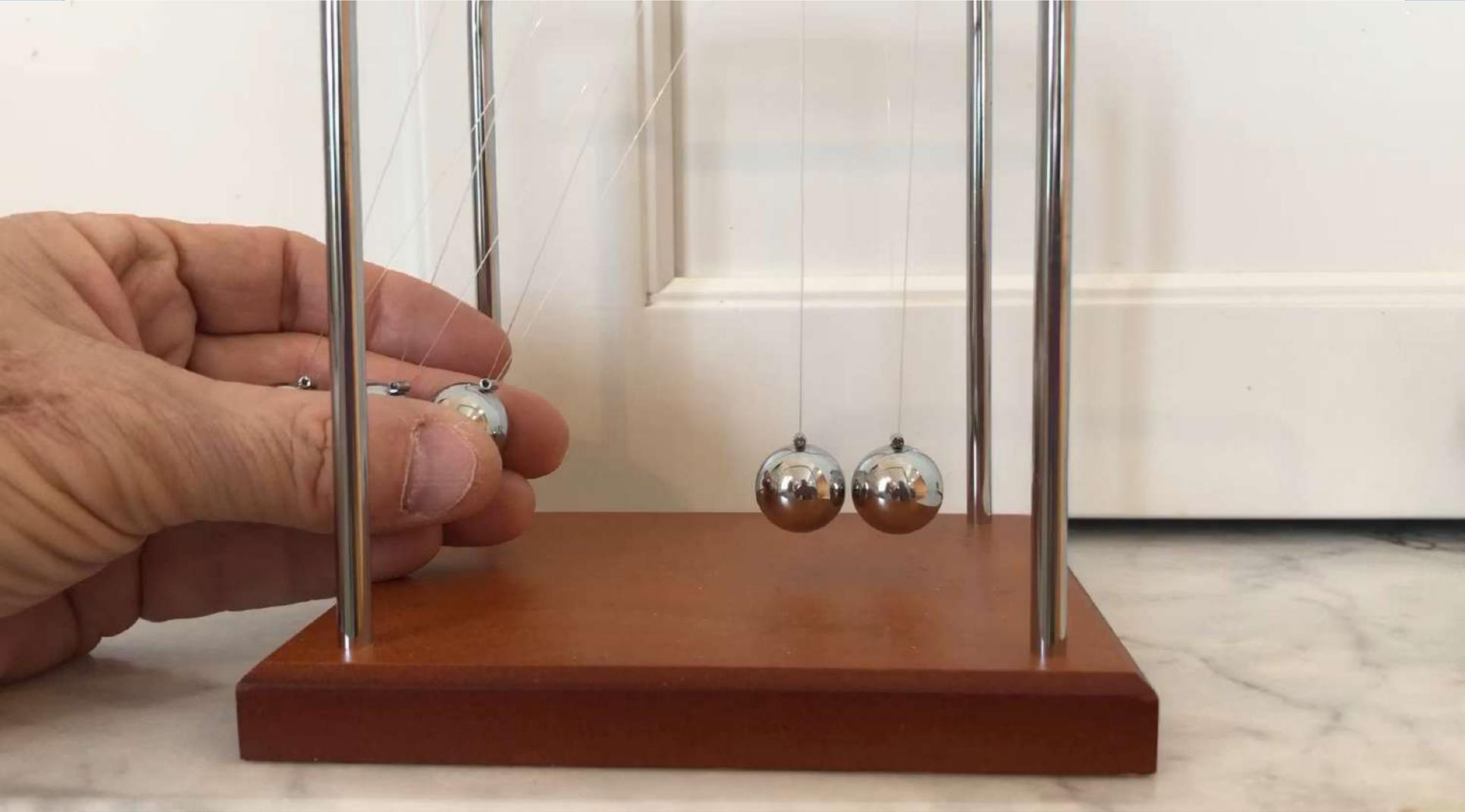












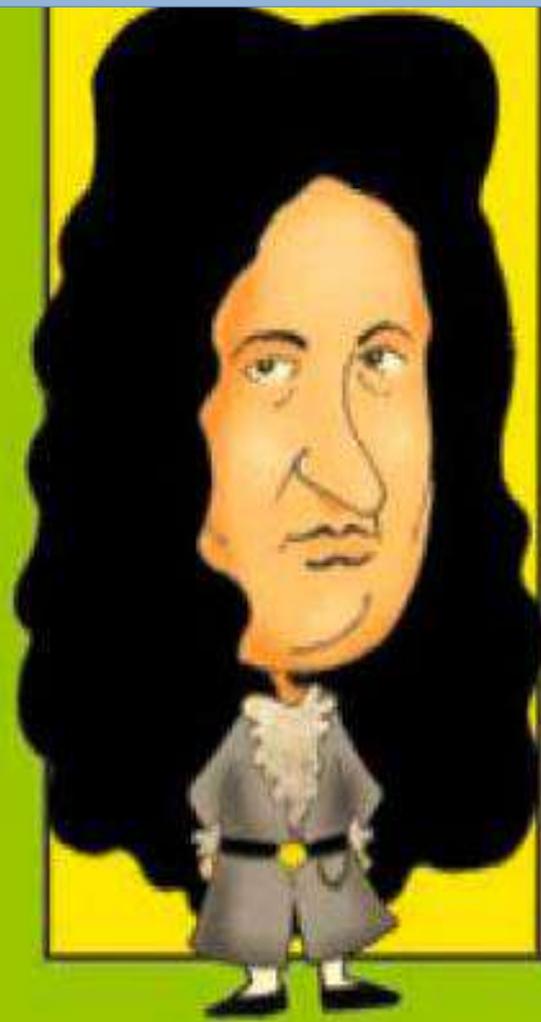
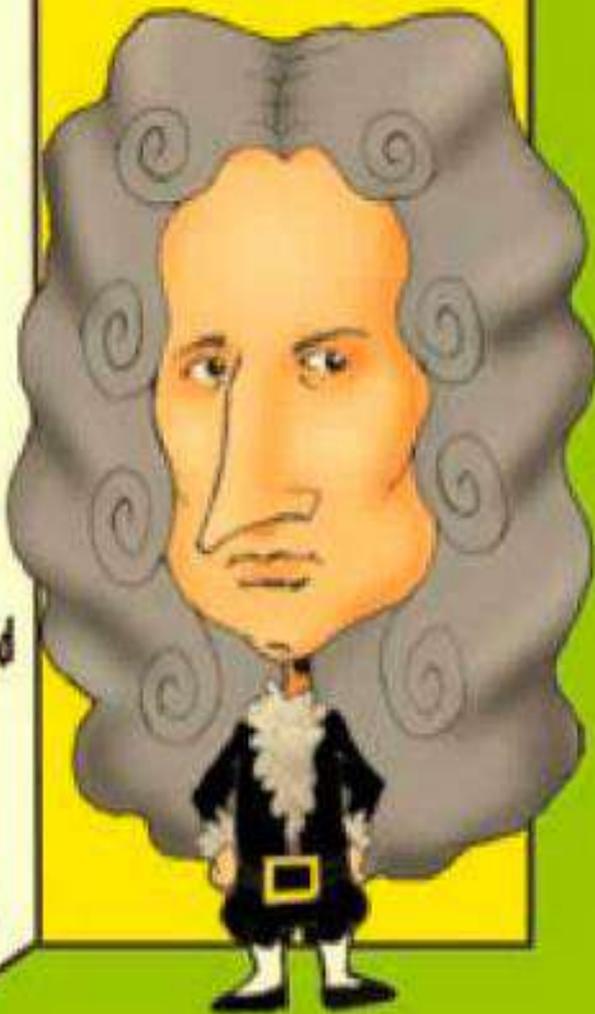




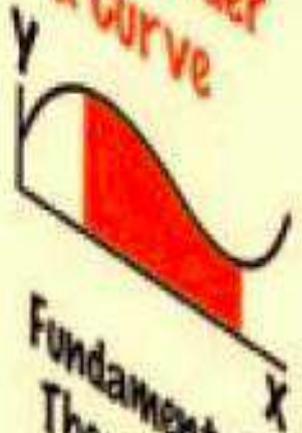
Definition of Derivative



Min/Max & Related
Rate Problems
Instantaneous
Rate of Change



Definition of Area Under a Curve



Fundamental
Theorem of
Calculus
(FTC)
Amount of Change

SIR ISAAC NEWTON & GOTTFRIED LEIBNIZ

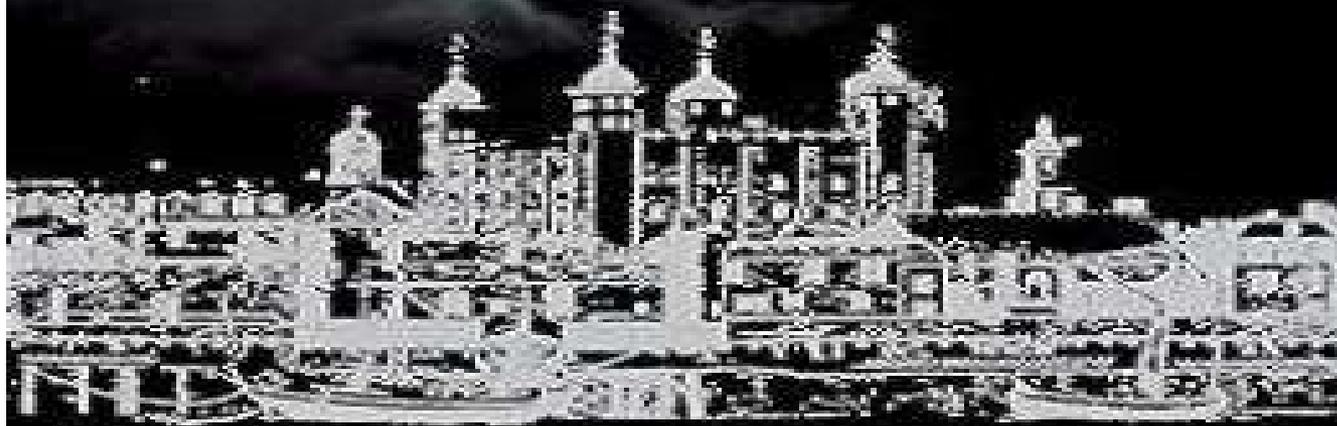
OPENING THE DOORS OF DIFFERENTIAL & INTEGRAL CALCULUS

The MASTER CRIMINAL, *the* GREAT GENIUS
and the PLOT TO DESTROY *the* ROYAL MINT

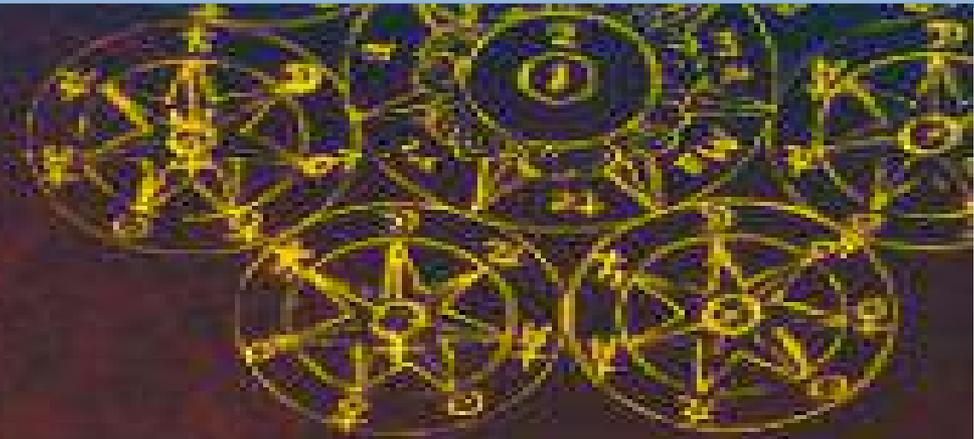


Newton *and the* Counterfeiter

"Masterly . . . this is novelistic history writing of the best kind."
Rebecca Stott, Guardian



BY THOMAS LEVENSON



ISAAC

THE ALCHEMIST

Secrets of Isaac Newton, Revealed



MARY LOSURE

