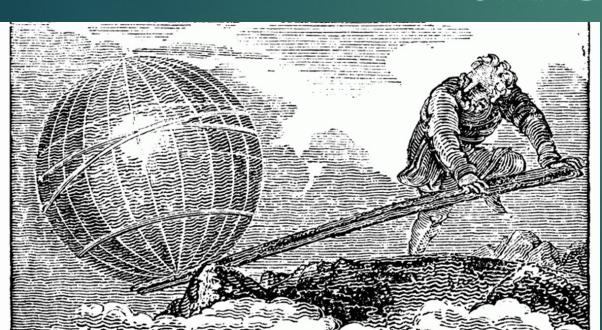
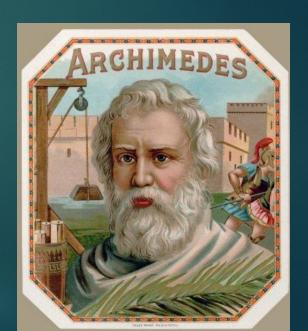
Ancient Greek Science

ENGINEERING: ARCHIMEDES OF SYRACUSE





Statue of Archimedes in Siracusa by Pietro Marchese (2016)



Magna Graecia



Ancient Syracuse



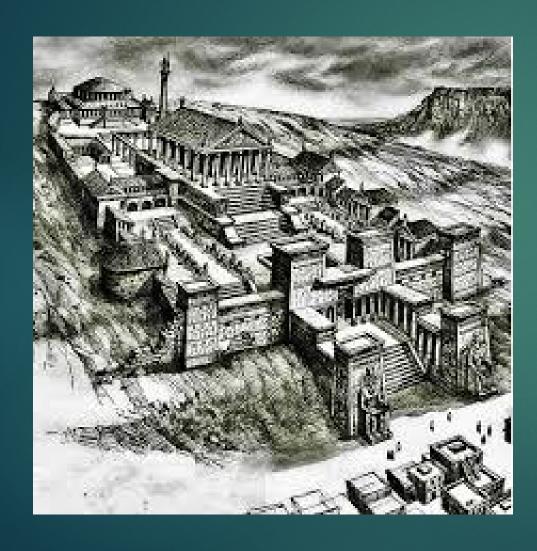
Hiero II

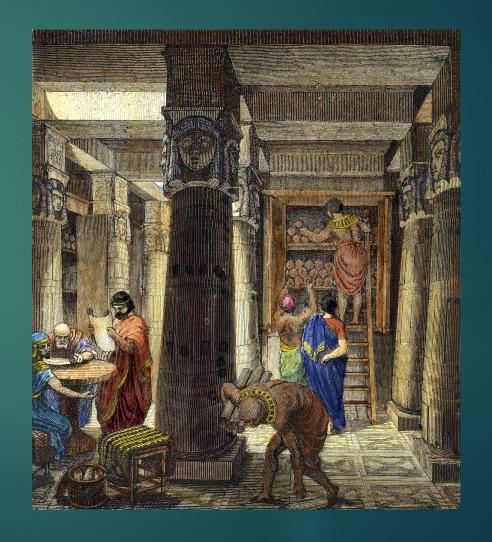
Syracuse Theatre





Library of Alexandria Reconstructions



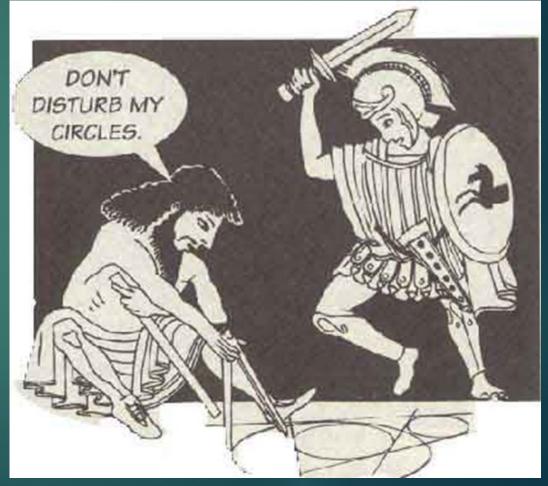


Death of Archimedes from Giovanni Maria Mazzuchelli, Notizie Istoriche di Archimede Siracusano, 1737.



The Death of Archimedes, by Thomas Degeorge, 1815





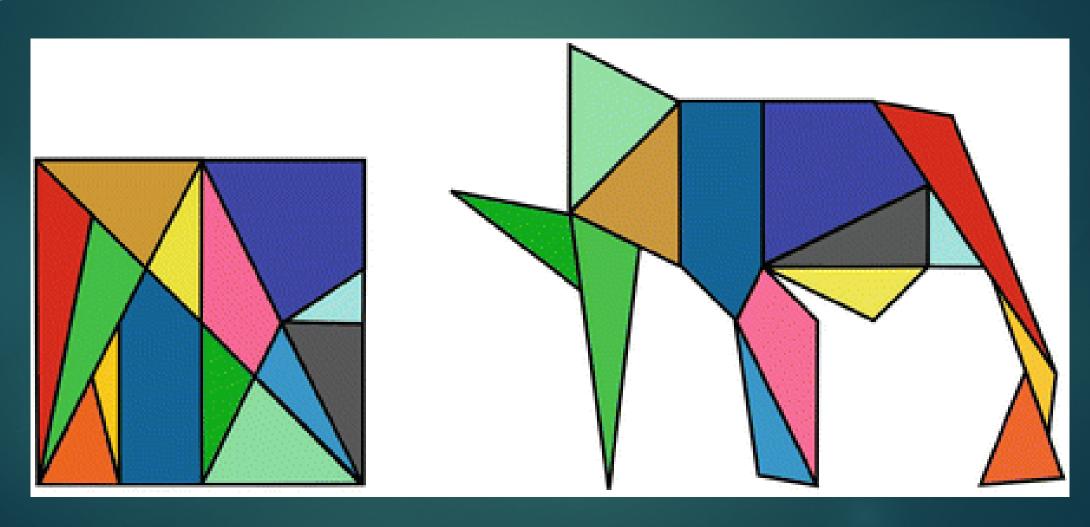
Cicero discovering the Tomb of Archimedes, by Thomas Christian Wink (1781)



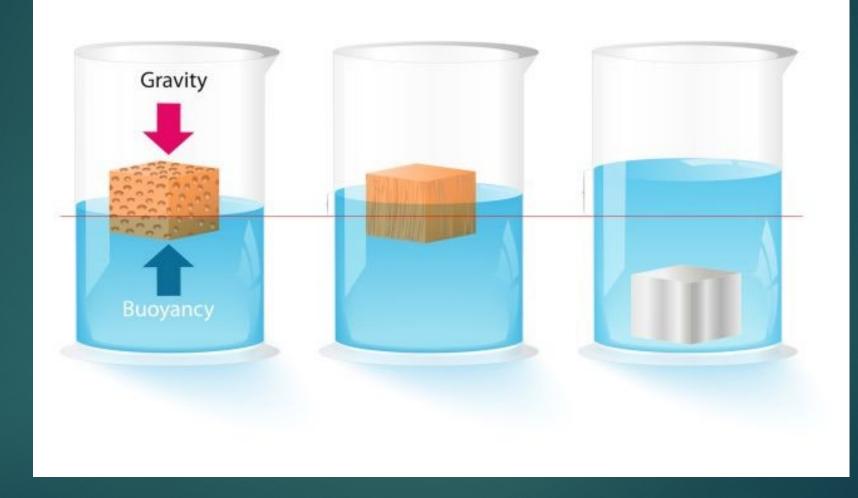
Archimedes Palimpsest



Ostomachion ('Bone-Battle') or Stomachion



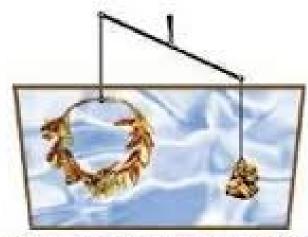
ARCHIMEDES PRINCIPLE







The crown and the gold have equal weight.



The crown displaced more water than the gold.

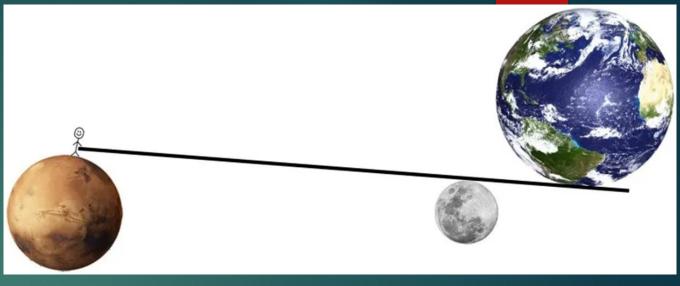
A statue of Archimedes in a bathtub at Madatech, Israel's National Museum of Science, Technology and Space in Haifa.



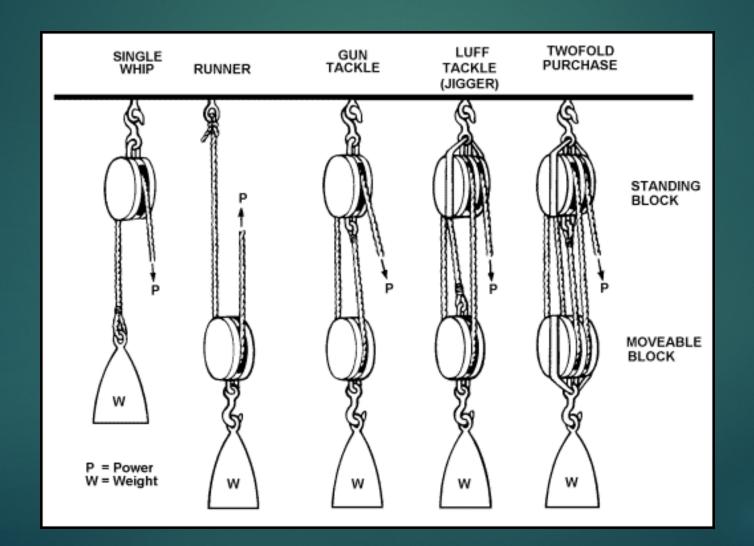


Lever





Block and Tackle Pulleys



SCREW

Egyptian terracotta model of Archimedes' s<mark>crew</mark>. 200BC-30BC, Nile Delta (British Museum)

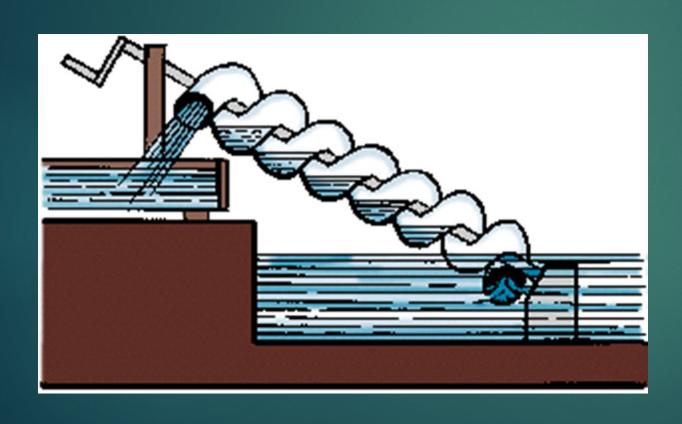








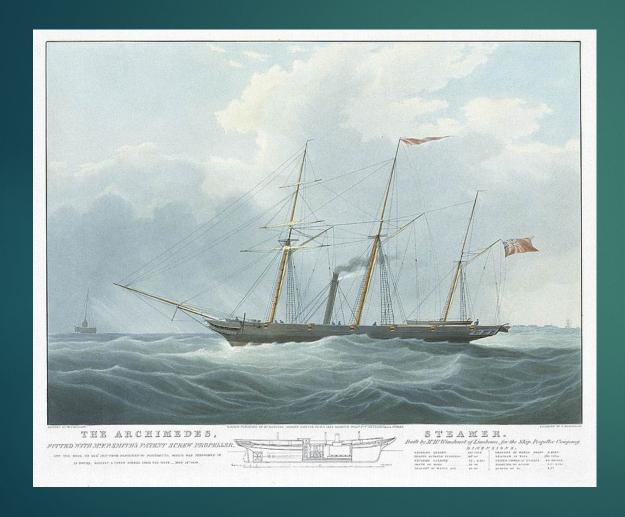
FIG. 3. Two-Bladed Archimedes Screw in Use in Modern Times in Egypt to Irrigate Fields

Seven 96-Inch-Diameter, Screw Pumps That Lift Wastewater from Pretreatment Section to Balance of Treatment Plant in Memphis, Tennessee.



SS Archimedes

SS Great Britain

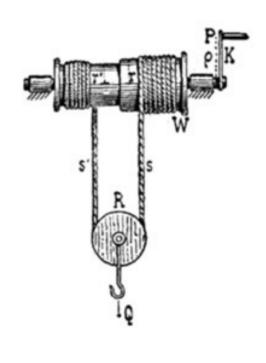




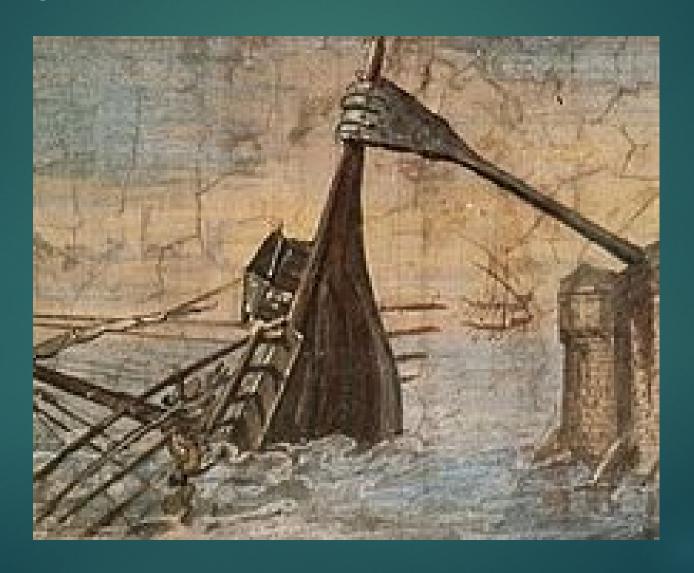
SYRACUSIA

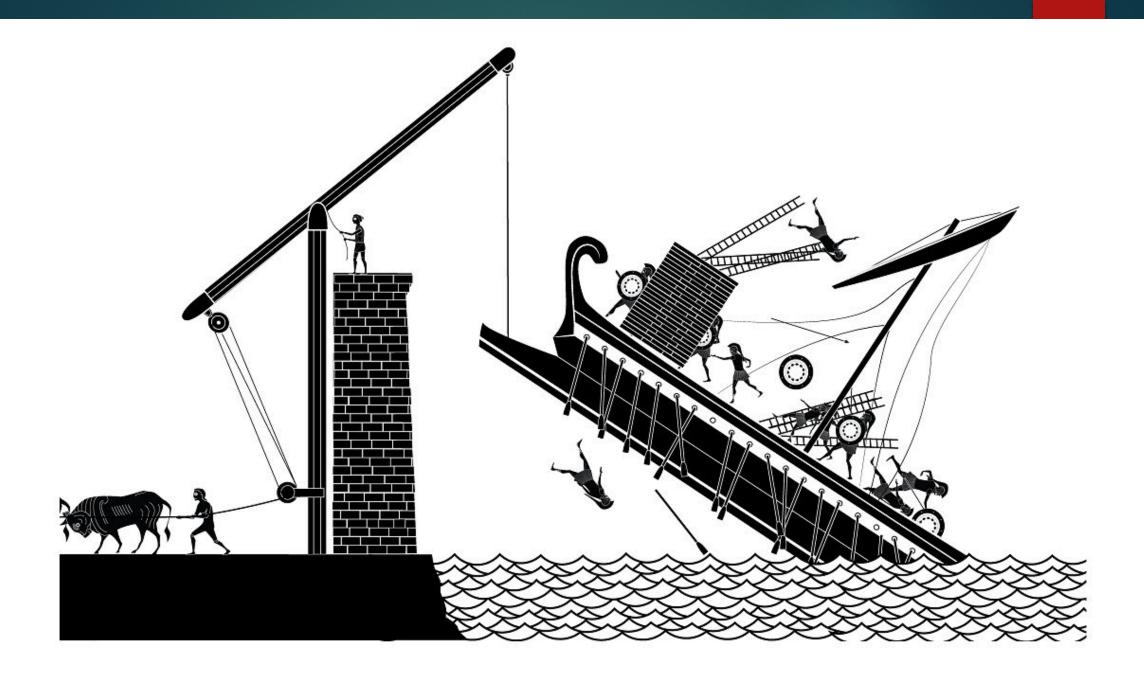


windlass



A painting of the Claw of Archimedes by Giulio Parigi, taking the name "iron hand" literally



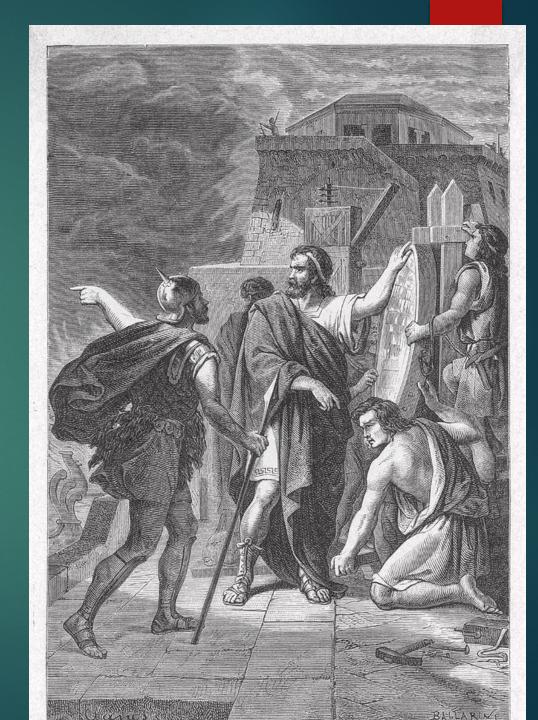


Artistic interpretation of Archimedes' mirror used to burn Roman ships by Giulio Parigi, c. 1599, Mural from Uffizi Gallery, Stanzino delle Matematiche, Florence

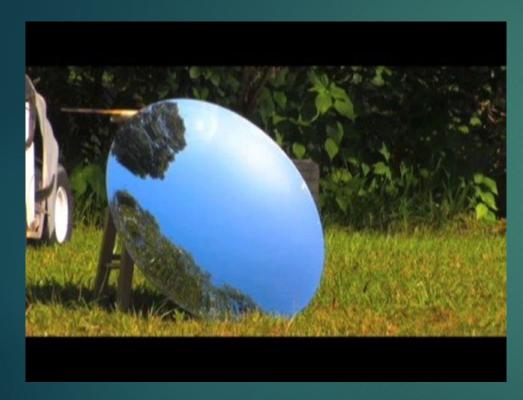


Archimedes' mirror





Concave Parabolic mirrors can concentrate sun's heat, as at Solar II in California

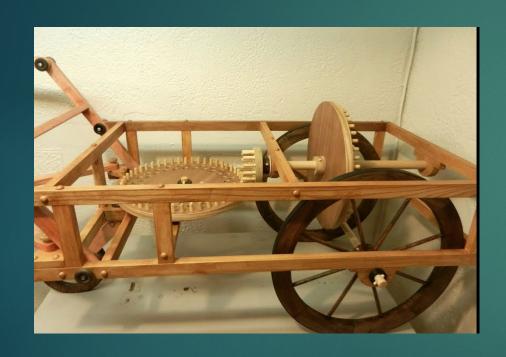


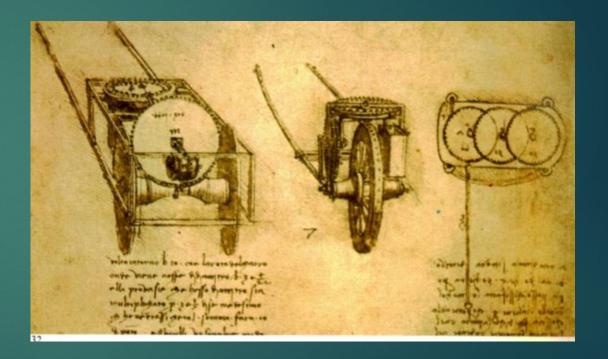


Archimedes Museum, Ancient Olympia



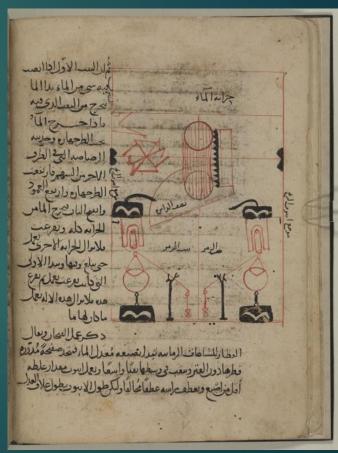
Archimedes' Odometer

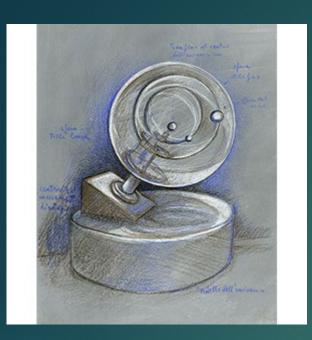


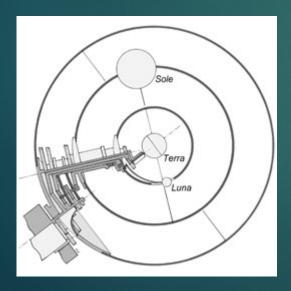


Archimedes' Hydraulic Clock described in Medieval Arabic Book of Archimedes on the Construction of Water-Clocks (Kitāb Arshimīdas fī al-binkāmāt).







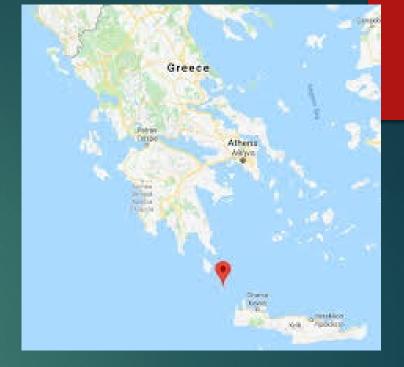


Attempts to reconstruct Archimedes' sphere



Antikythera Mechanism





Archimedes was constantly calculating

Coin of his Foe and Admirer, Marcellus

