Fools gold: iron pyrite, is an iron sulfide

Gold properties: malleable, conductive, dissolves only in aqua regia (HCl)3nitric, shiny, yellow, dense, rare, doesn’t oxidize, low melting point

Silver properties: most reflective, tarnishes, only behind gold in malleability, most conductive element

Get silver by cupilation, most silver is found mixed with lead galena, mix galena with pottery then heat it up, lead sulfide evaporates, leaves you with silver, the pottery absorbs the lead that is evaporated

Gold: found in rocks, quartz

Get it out of quartz using amalgamation, grind it up, then mix in mercury, then gold dissolves in mercury, then boil mercury

We use cyanide now

Get gold also by liquation: gold and silver are mixed with copper, add lead, gold and silver go into the lead, then do cupilation, left with a gold and silver mix, then do parting: add salt to the mixture, silver reacts gold is left behind

1903 printing gold on surfaces, used for circuits later