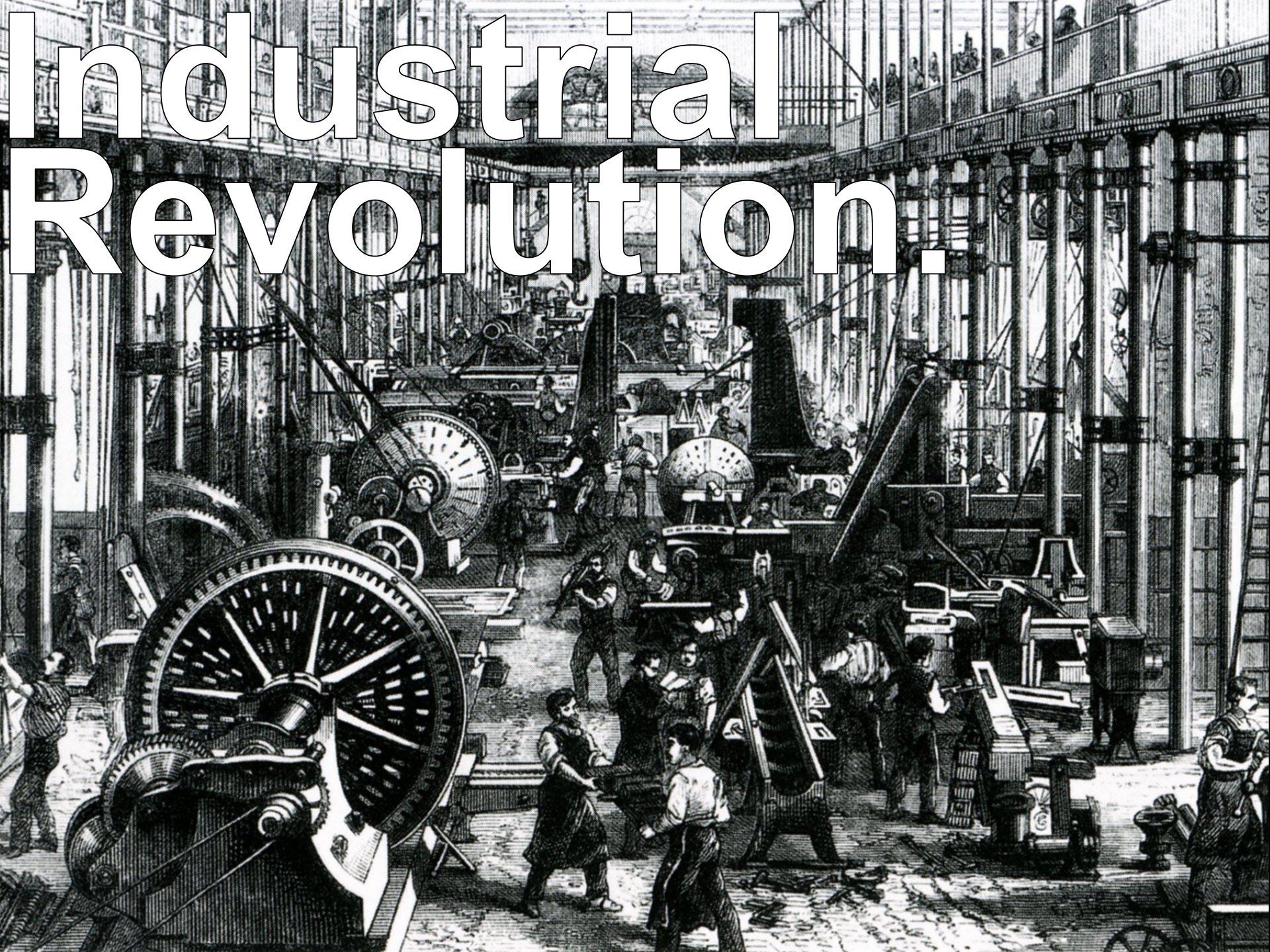


Industrial Revolution.



PERIODIZATION (n)- ability to describe, analyze, & evaluate different ways that historians divide history (including turning points, starting/ending dates)

FOUNDATIONS
(to 600 BCE)
TECHNOLOGICAL & ENVIRONMENTAL TRANSFORMATIONS

CLASSICAL
(600 BCE-600 CE)
HUMANISM & ENVIRONMENTAL TRANSFORMATIONS

POST-CLASSICAL
(600 CE-1450 CE)
TECHNOLOGICAL & ENVIRONMENTAL TRANSFORMATIONS

EARLY MODERN
(1450 CE-1750 CE)
TECHNOLOGICAL & ENVIRONMENTAL TRANSFORMATIONS

MODERN
(1750 CE- 1900 CE)
TECHNOLOGICAL & ENVIRONMENTAL TRANSFORMATIONS

CONTEMPORARY
(1900 CE- PRESENT)
ACCELERATING GLOBAL CHANGE & ENVIRONMENTAL TRANSFORMATIONS

MODERN (1750 CE- 1900 CE)

INDUSTRIALIZATION & GLOBAL INTEGRATION

1750
CE

1900
CE

BY 1750 CE

- AMERICA IS FULLY INTEGRATED INTO THE GLOBAL ECON.
- EARTH'S POPUL. 2X
- EUROPEAN MARIT. EMPIRES PERMEATE
- COLUMBIAN EXCH.
- MONARCHIES REIGN
- COERCED LABOR
- MERCANTIL=ECON

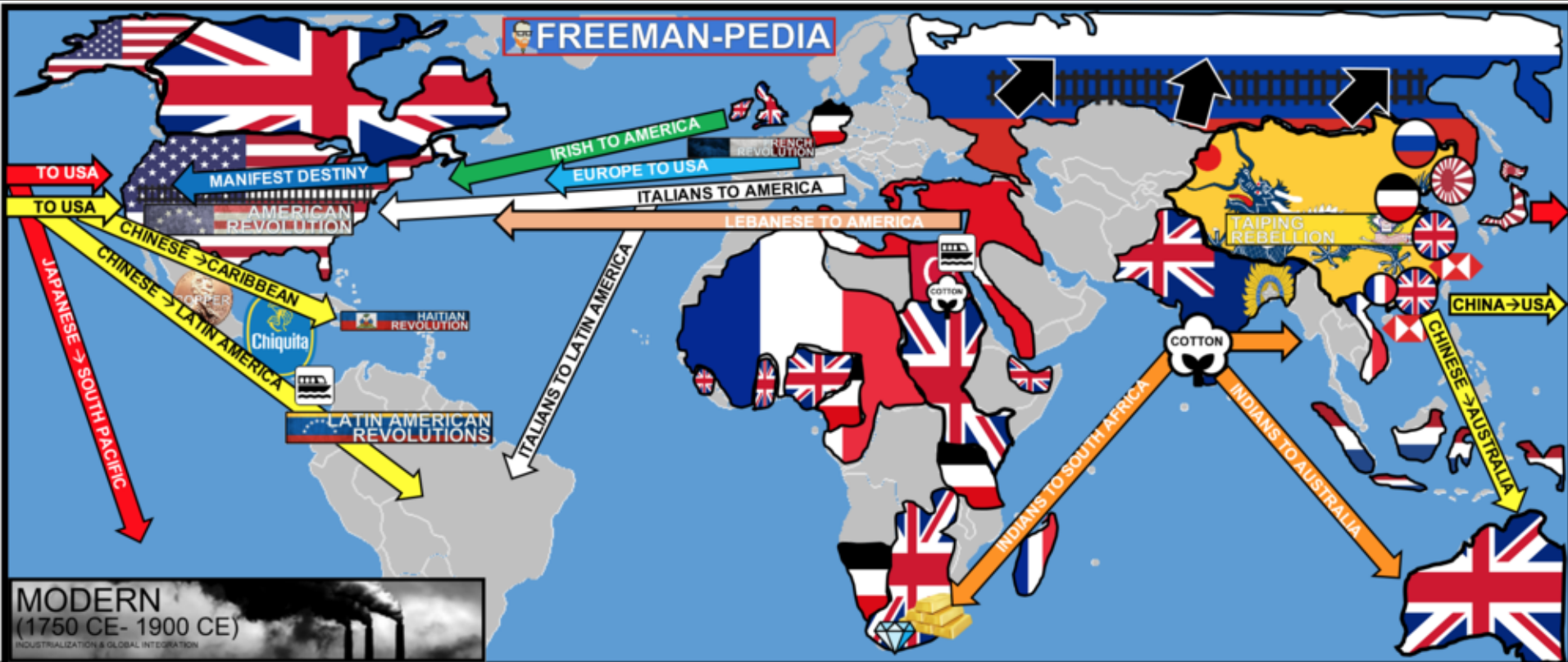
DURING



BY 1900 CE

- INDUSTRIAL REVOL. HAS RESHAPED EARTH'S ECONOMY
- POLITICAL REVOLUT. BASED ON ENLIGHT. BRINGS ABOUT MODERN GOVERNMENT
- INDUS. NATIONS TOOK ADVANTAGE BUILT EMPIRES

GEOGRAPHY



STATES:

- | | | | |
|--|----------------|------------------------------|-----------------|
| | UNITED STATES | | QING CHINA |
| | TSARIST RUSSIA | | OTTOMAN EMPIRE |
| | MEIJI JAPAN | | KHEDIVATE-EGYPT |
| | GERMANY | SPHERES OF INFLUENCE (CHINA) | |
| | GREAT BRITAIN | | |
| | | | |
| | | | |

EMPIRES:

- | | |
|--|---------|
| | BRITISH |
| | DUTCH |
| | FRENCH |
| | GERMAN |
| | RUSSIAN |

REVOLUTIONS:

- AMERICAN REVOLUTION
- FRENCH REVOLUTION
- HAITIAN REVOLUTION
- LATIN AMERICAN REVOLUTIONS
- REBELLIONS:**
- TAIPING REBELLION

COMMERCE:

- UNITED FRUIT COMPANY IN CENTRAL AMER.
- TRANS-CONT. RAILROAD
- HSBC
- PANAMA & SUEZ CANAL

RAW MATERIALS:

- MUHAMMAD ALI in EGYPT
- TEXTILES IN INDIA
- MUHAMMAD ALI in EGYPT
- TEXTILES- INDIA
- GOLD & DIAMONDS IN S. AFRICA



THE GREAT

TIME GRID

MODERN (1750 CE - 1900 CE)

INDUSTRIALIZATION & GLOBAL INTEGRATION



	1772 CE	1794 CE	1816 CE	1838 CE	1860 CE	1882 CE	1900 CE
MIDDLE EAST			MUHAMMAD ALI (EGYPT 1805-48)			SUEZ CANAL	OTTOMAN EMPIRE BRITISH EMPIRE
EAST ASIA		MANCHU EMPIRE/QING DYNASTY			TAIPING REBELLION		BRITISH EMPIRE MEIJI PERIOD
EUROPE		INDUSTRIAL REVOLUTION	FRENCH REVOLUTION	REVOLUTION			
AFRICA		7 YEARS WAR	SMALLPOX VACCINE (1796)	1st STEAM LOCOMOTIVE (1825)	POTATO FAMINE	1st INT'L SOCCER MATCH (1872) (SCOTLAND 8-0 PERU 0-11)	MAXIM GUN (1861)
SOUTH ASIA	BATTLE OF PLASSEY	BENGAL FAMINE	MUGHAL EMPIRE	BRITISH EMPIRE	SEPOY REBELLION 1857		BERLIN CONFERENCE (1885) AFRIQUE
LATIN AMERICA			HAITIAN REVOLUTION	GRITO DE DELORES (MEXICO, 1810)	LATIN AMERICAN REVOLUTIONS	HMS BEAGLE	
NORTH AMERICA	7 YEARS WAR		AMERICAN REVOLUTION	AMERICAN EMPIRE	BRITISH EMPIRE		
OCEANIA	COOK 1770			ANTARCTICA DISCOVERED 1820	BRITISH EMPIRE		
SOUTHEAST ASIA			DUTCH EMPIRE	SPANISH EMPIRE			

FREEMAN-PEDIA

Anytown, Britain c. 1750



NEW YORK CITY, c.1913



Anytown, Britain c. 1750



COTTAGE INDUSTRY



COMMONS=AREA OPEN TO ANYONE FOR FARMING, HERDING, GRAZING, ETC.

ENCLOSURE ACTS (1773): ENCLOSED COMMONS AND REMOVED COMMONERS' ACCESS

SYSTEM IN WHICH FINISHED PRODUCTS WERE PRODUCED IN THE HOME (HERE; YARN FROM COTTON SPUN ON A WHEEL)



LOCAL ENTREPREN. BRINGS RAW MATERIALS TO YOUR DOOR...



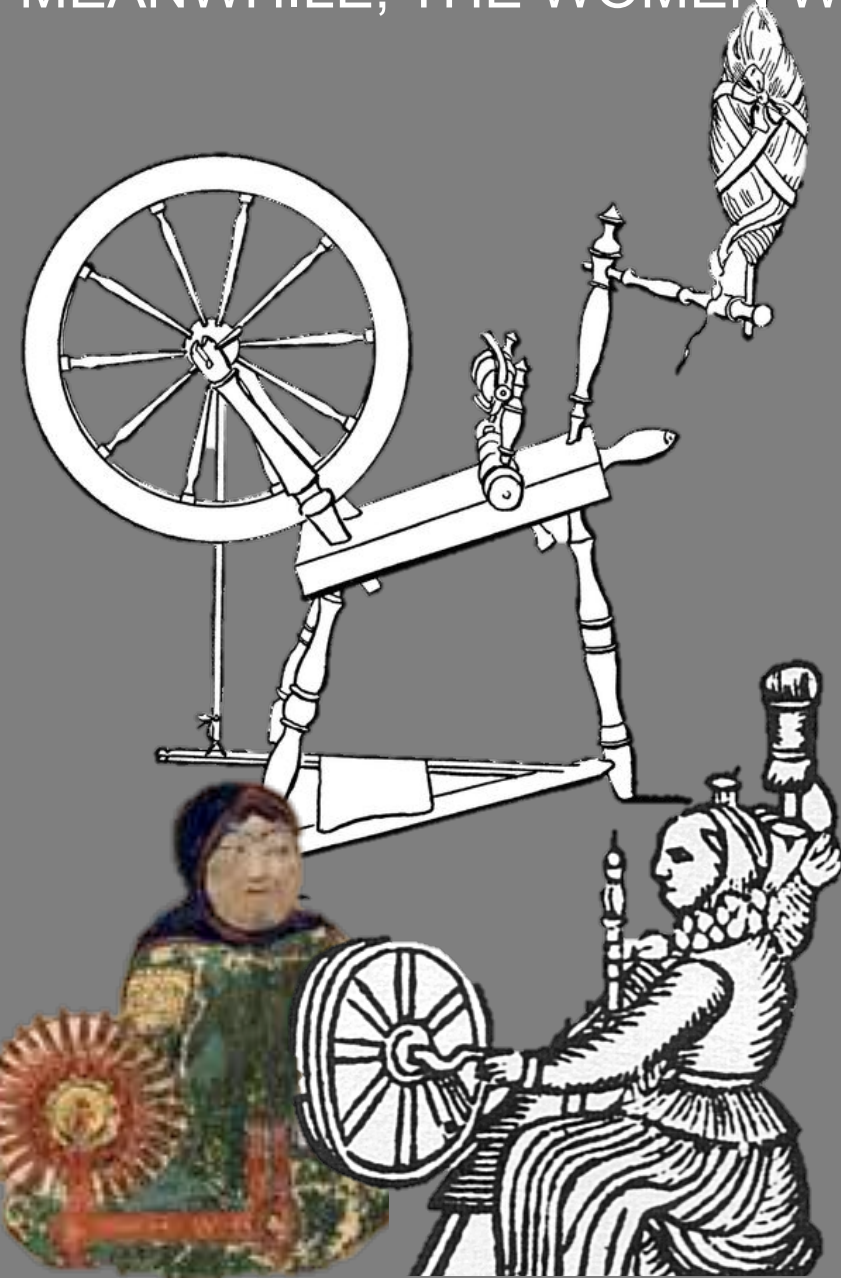


1733: JOHN KAY INVENTS THE FLYING SHUTTLE

MEANWHILE, THE WOMEN WERE SPINNING ON ONE OF THESE:

SPINNING WHEEL

- DATES BACK TO 1,000 CE IN INDIA
- FIRST IMAGERY FROM BAGHDAD (1234 CE)
- USED TO SPIN THREAD OR YARN FROM NATURAL FIBERS (COTTON, WOOL, ETC)



13TH CENTURY ARABIC
MINIATURE FROM BAGHDAD

EARLY 17TH CENTURY
ELIZABETHAN ENGLAND



1895 PAINTING OF ST.
ELIZABETH OF HUNGARY



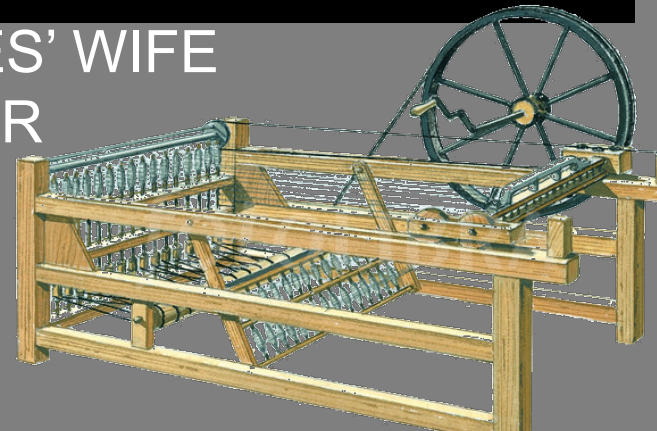
MAHATMA GANDHI USED THE SPINNING WHEEL
AS A POLITICAL MOVEMENT TO REJECT
WESTERN CULTURE & IDENTIFY WITH THE POOR

YARN PRODUCTION COULD NO LONGER KEEP UP WITH WEAVING *UNTIL...*

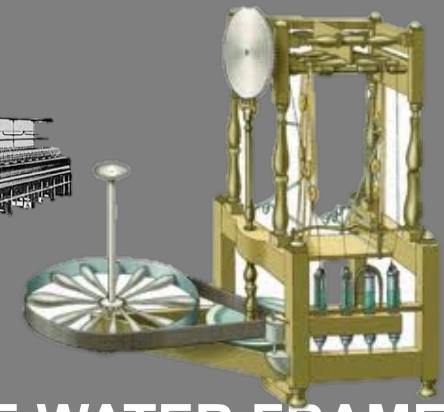
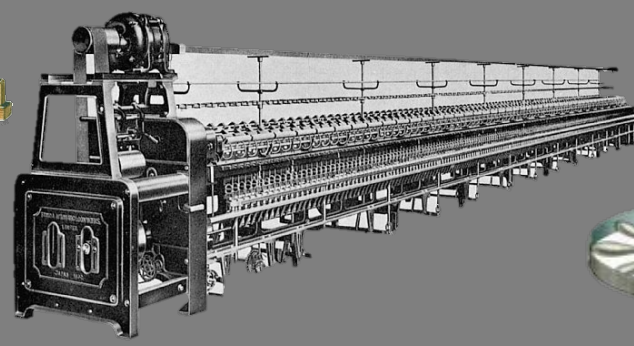
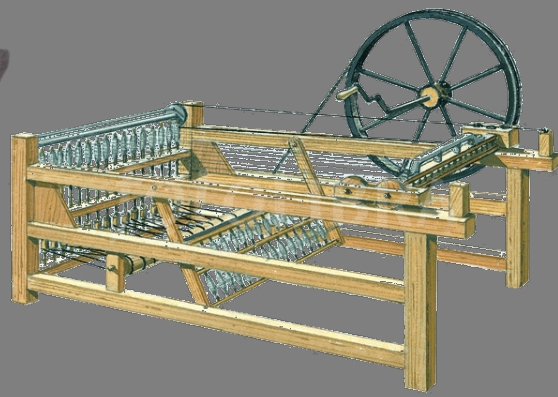


JAMES HARGREAVES' WIFE
KNOCKED OVER HER
SPINNING WHEEL...

JAMES HARGREAVES CAME
IN AND HAD A REALIZATION →
HOW DID IT WORK?!?!?!?!?!?



FROM THERE, INNOVATION SPURRED MORE AND MORE INNOVATION



FLYING SHUTTLE SPINNING JENNY SPINNING FRAME WATER FRAME

(1733)

FASTER WEAVING

(1764)

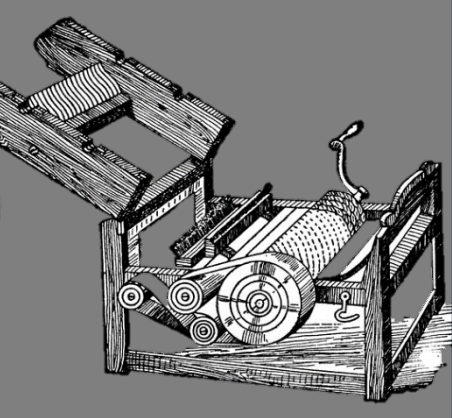
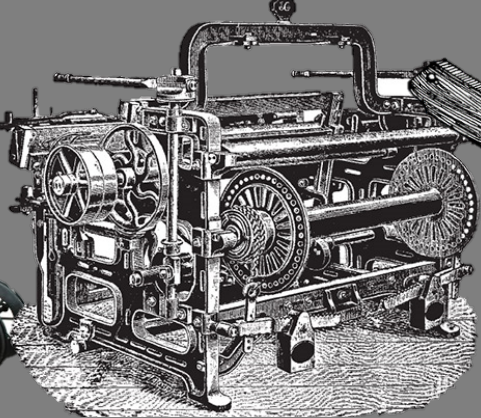
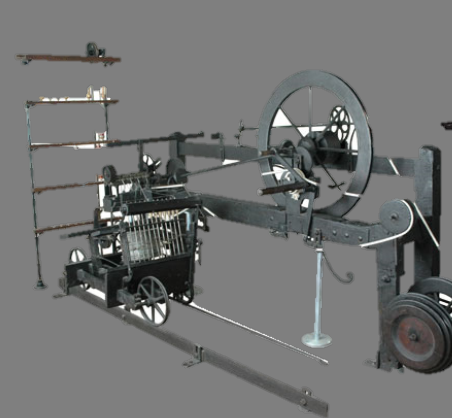
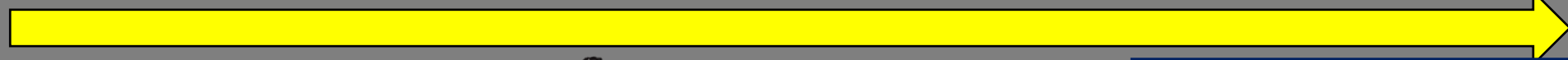
FASTER SPINNING

(1767)

STRONGER THREAD
REQ'D NEW POWER SOURCE

(1769)

← WATER POWERED
← SPINNING FRAME



SPINNING MULE POWER LOOM COTTON GIN

(1779)

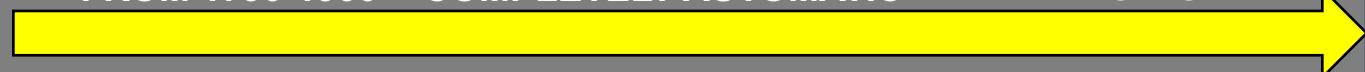
MOST USED SPINNERS FROM 1790-1900

(1784)

1850-250k in ENGLAND
COMPLETELY AUTOMATIC

(1794)

SEPERATES COTTON FIBER FROM SEED



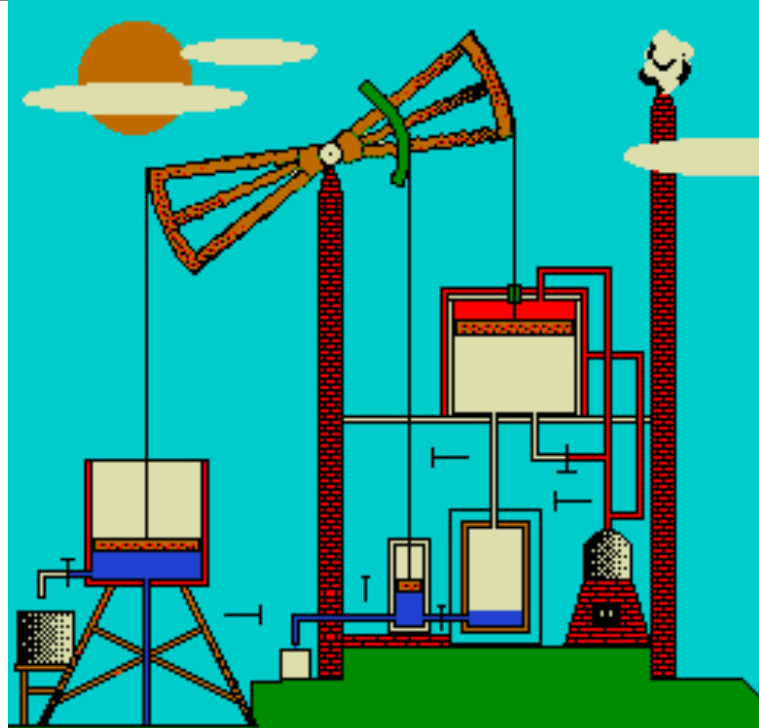
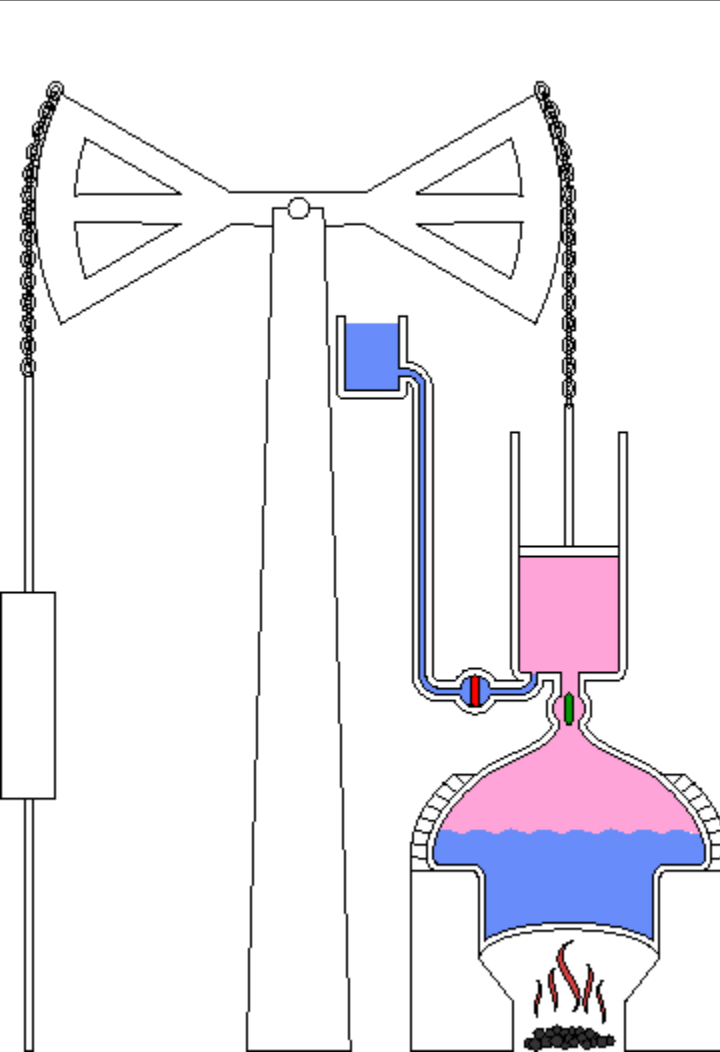
COTTON GIN= CIVIL WAR?!?!?

1. COTTON PRODUCTION EASIER
2. DEMAND FOR COTTON INCREASES
3. COTTON PRODUCTION DOMINATES US ECON.
 - a. 1790=6 SLAVE STATES
 - b. 1860=15 SLAVE STATES
4. 1860=1/3 OF SOUTH=SLA.
5. ENCOURAGED PLANTATION BASED ECON.
6. INDIRECT CAUSE OF CIV.

FALLING WATER IS TOO WEAK AND NOT RELIABLE...

STEAM ENGINE

- SCOTSMAN JAMES WATT
 - WAS GIVEN A NEWCOMEN MODEL TO FIX/IMPROVE
 - CAME UP WITH THIS MODEL BELOW
- (HIS IMPROVEMENT WAS USING TWO CONDENSERS SO YOU DIDN'T HAVE TO WAIT FOR IT TO HEAT BACK UP MAKING IT WAAAAAY MORE EFFICIENT)



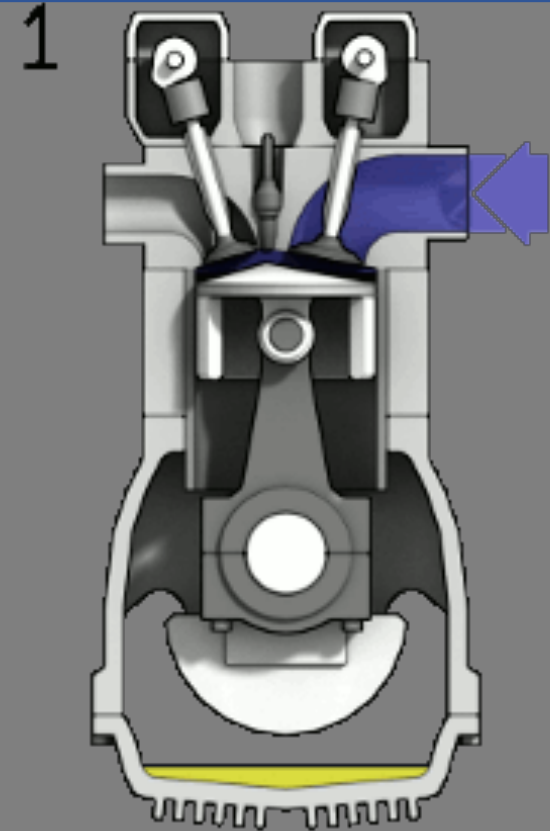
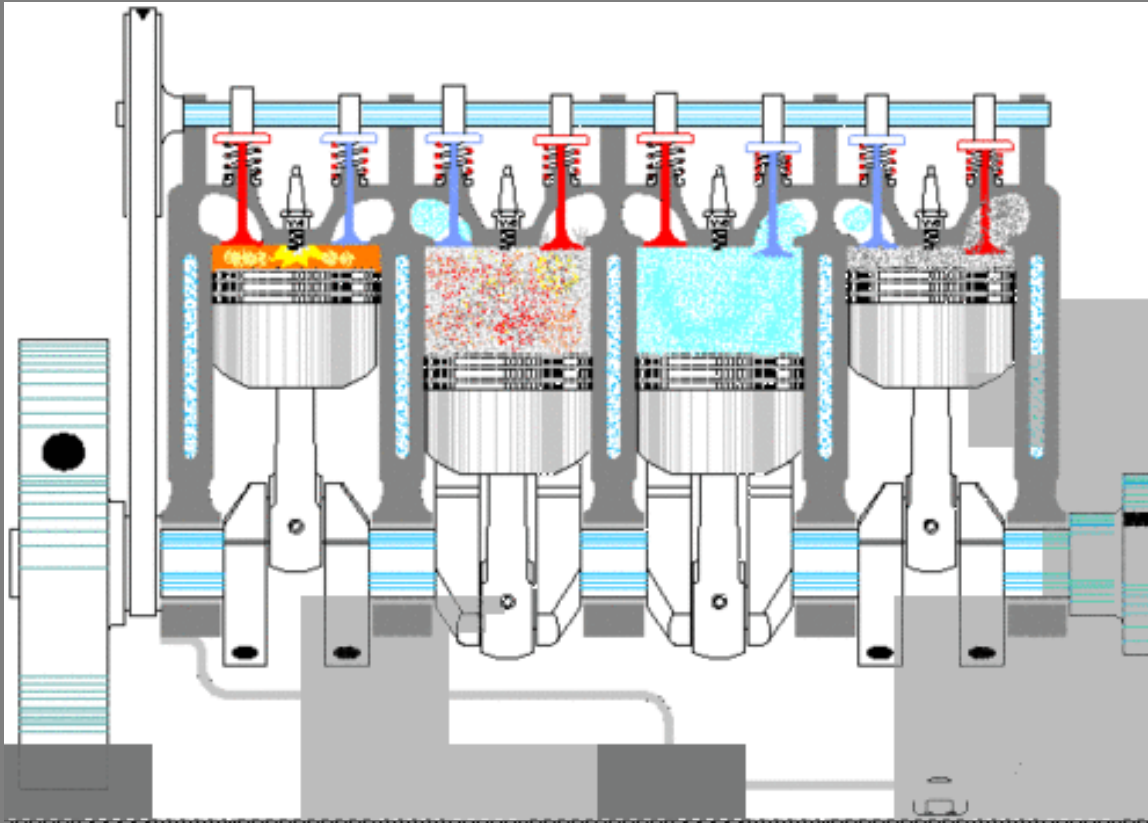
- ## MOST INFLUENTIAL PEOPLE OF ALL TIME:
1. MUHAMMAD (PBUH)
 2. NEWTON
 3. JESUS
 4. BUDDHA
 5. CONFUCIUS
 6. ST. PAUL
 7. TS'AI LUN
 8. GUTENBERG
 9. COLUMBUS
 10. EINSTEIN
 11. PASTEUR
 12. GALILEO
 13. ARISTOTLE
 14. EUCLID
 15. MOSES
 16. DARWIN
 17. QIN SHIHUANGDI
 18. AUGUSTUS C.
 19. COPERNICUS
 20. LAVOISIER
 21. CONSTANTINE
 22. **JAMES WATT**
- (MICHAEL K HART'S *THE 100*)

DID ANYONE ARRIVE TODAY USING THE MAGIC OF STEAM POWER? INTERNAL COMBUSTION ENGINE

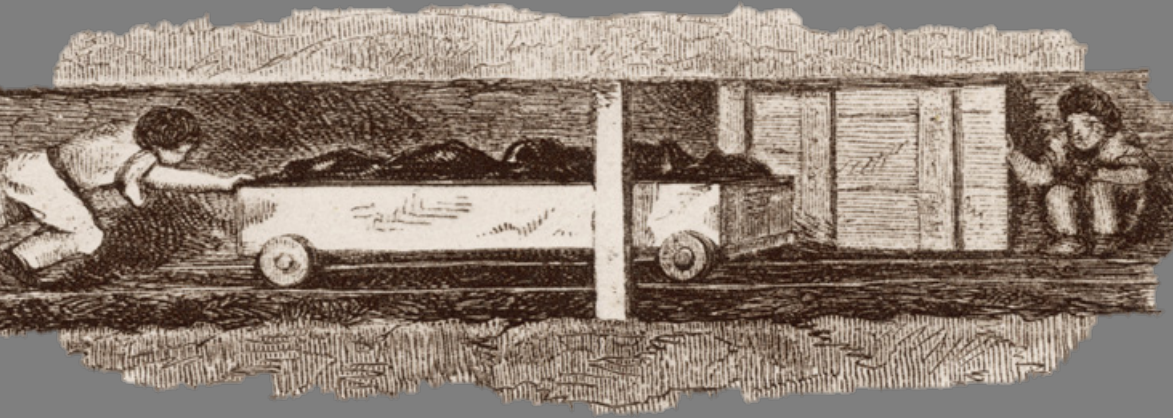
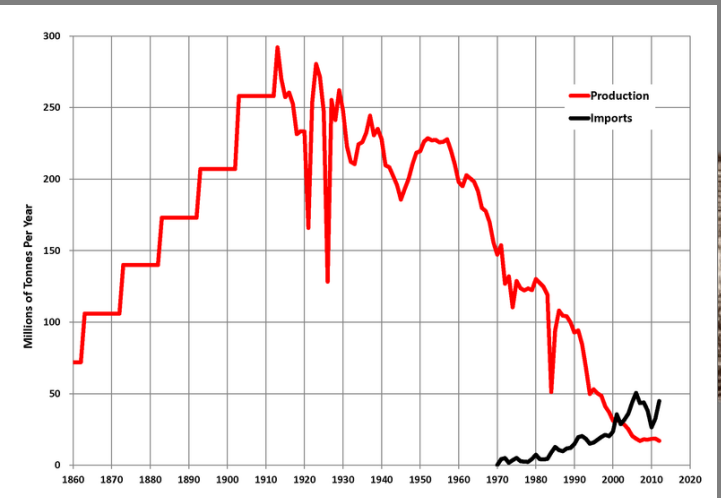
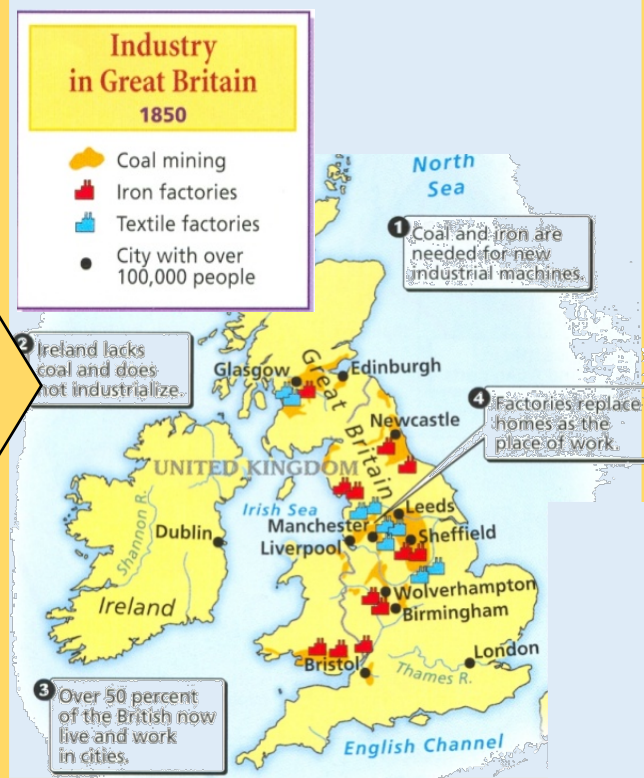
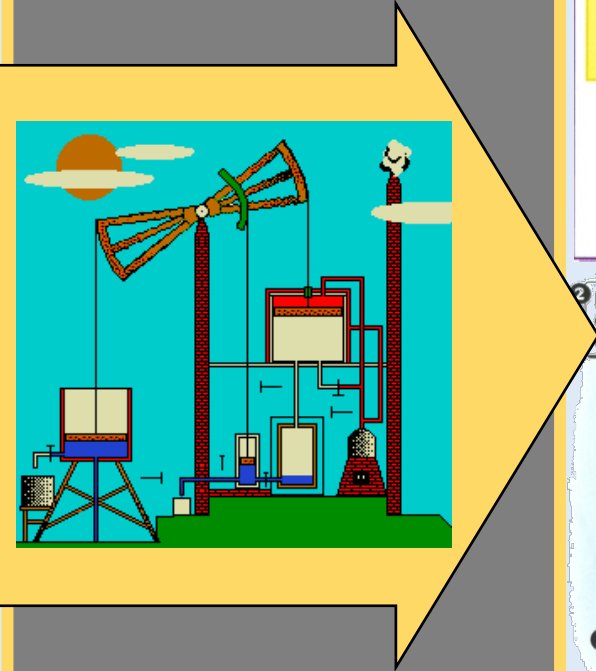
- DEVELOPED BY MANY PEOPLE (SEE TEXTILE INDUSTRY) STARTING IN 1791
 - “OBTAINING MOTIVE POWER BY THE EXPLOSION OF GASES”
- NOTABLE INNOVATORS:
 - GOTTLIEB DAIMLER, KARL BENZ, RUDOLF DIESEL, WILHELM MAYBACH

HOW IT WORKS:

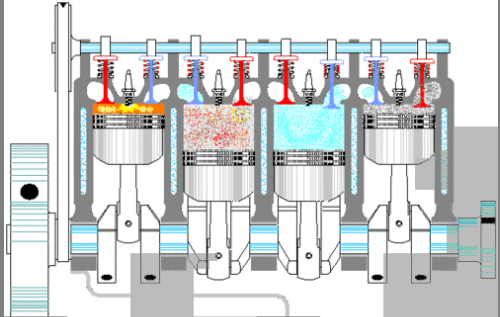
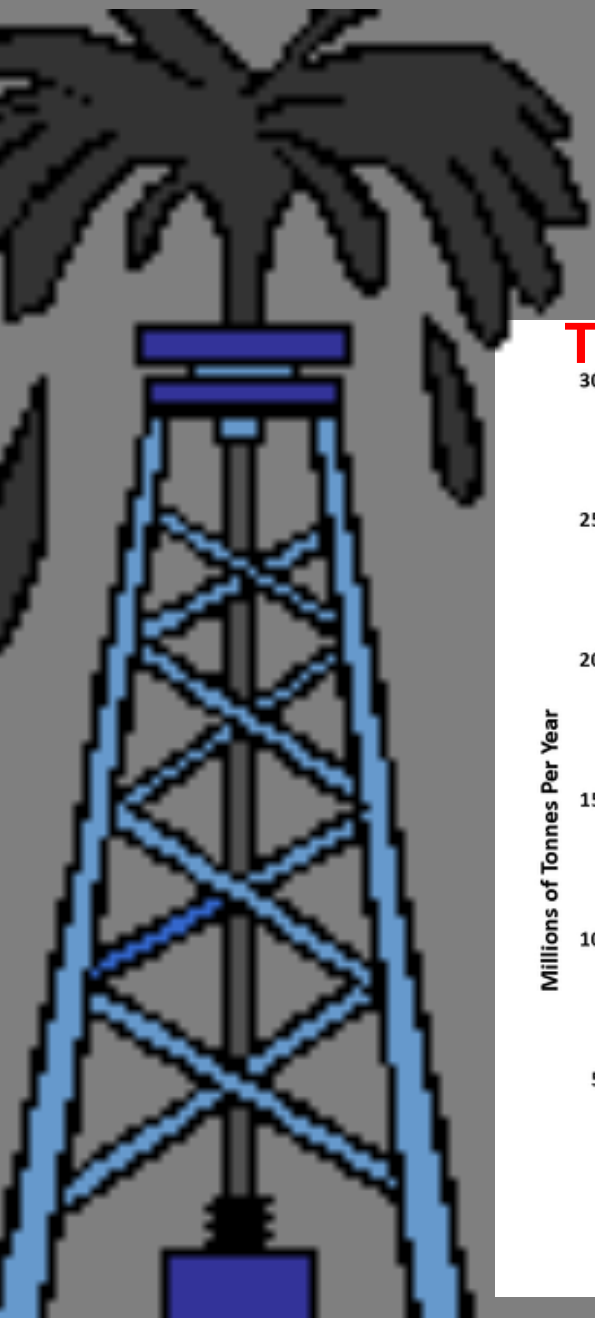
- INTAKE:**
AIR-FUEL MIXTURE PULLED IN BY PISTON
- COMPRESSION:**
PISTON COMPRESSES AIR-FUEL MIXTURE
- COMBUSTION:**
SPARK PLUG IGNITES FUEL
- EXHAUST**
EXHAUST VALVE OPENS EXPELS SPENT AIR



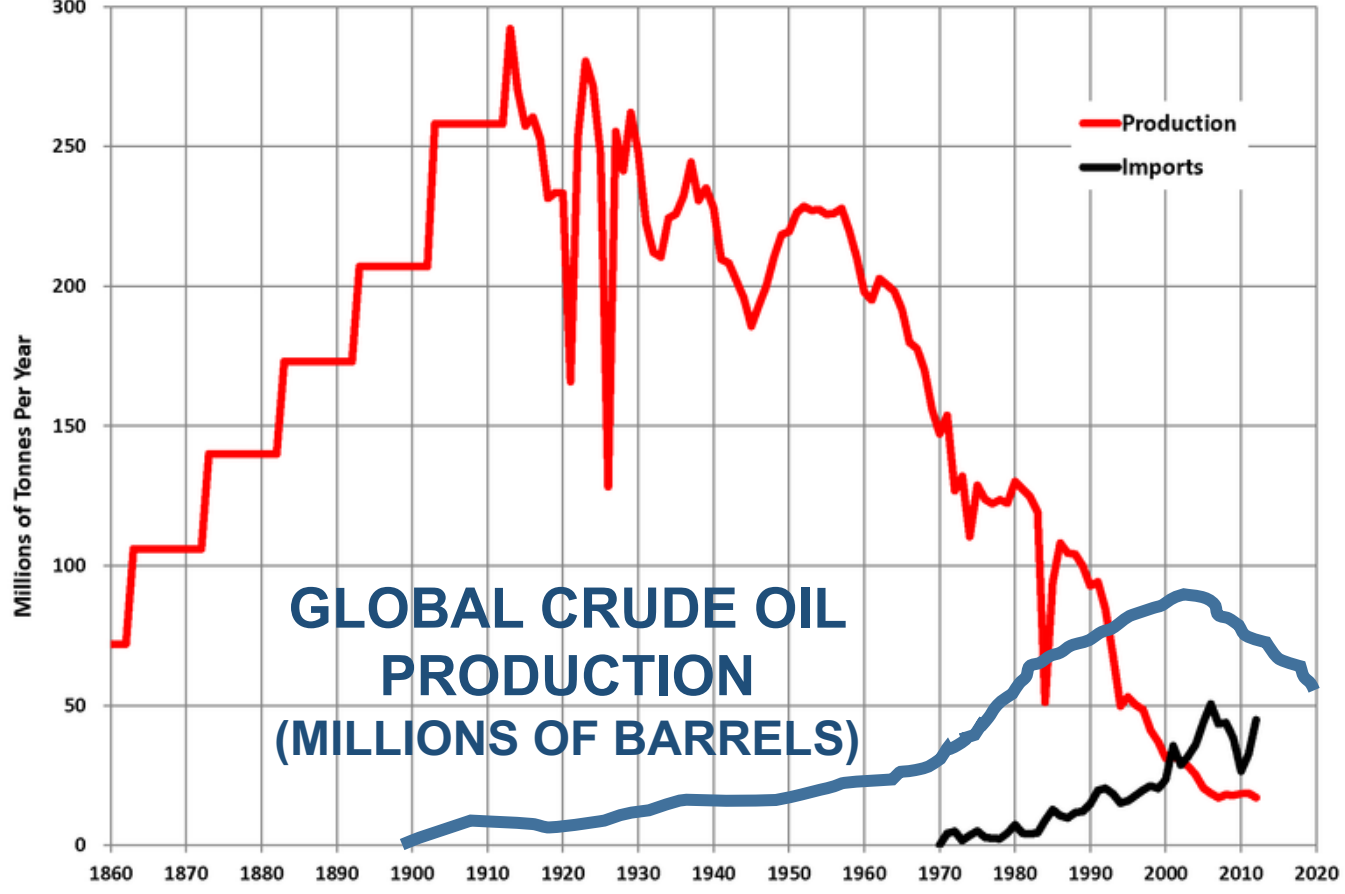
HOW DO YOU FUEL THESE NEW MACHINES?



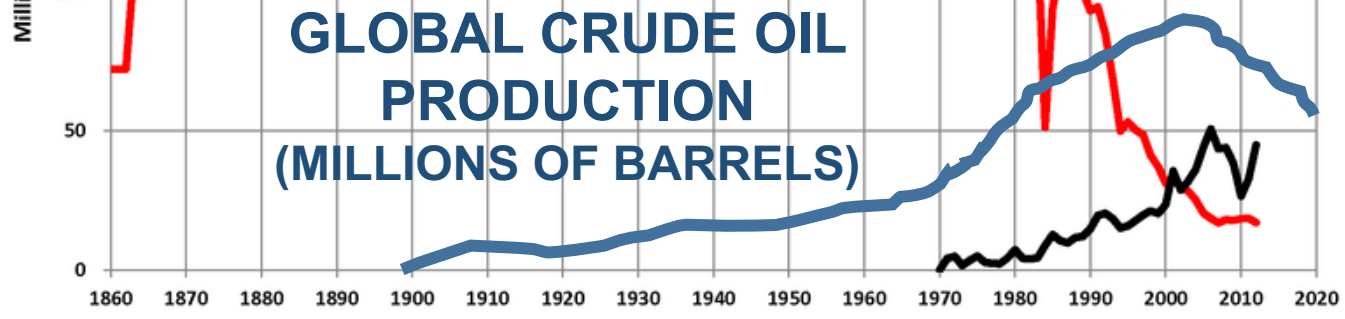
HOW DO YOU FUEL THESE NEW MACHINES?



TOTAL COAL PRODUCTION IN GREAT BRITAIN



GLOBAL CRUDE OIL PRODUCTION (MILLIONS OF BARRELS)



HOW DO YOU FUEL THESE NEW MACHINES?

8m30s

LIFE IN THE FACTORY

- CHIEF MEANS OF ORGANIZING LABOR AROUND THE NEW MACHINES
- **BOURGEOISIE** NEEDS TO GET THE **PROLETARIAT** TO:
 - WORK REGULAR HOURS
 - WORK FOR LOW WAGES
 - WORK LONG HOURS
 - PERFORM REPETITIVE TASKS



MODERN TIMES

CHILD LABOR: MINING INDUSTRY



KINGSTON, PA c.1900



HUGHESTOWN, PA 1911



DEMOCRATIC REPUBLIC OF THE CONGO, 2017



CHILD LABOR: TEXTILE INDUSTRY



CHILD LABOR: TEXTILE INDUSTRY



CHILD LABOR: CARTOONS



CHILD LABOR: CARTOONS



LIVING CONDITIONS: JACOB RIIS

“LONG AGO, IT WAS SAID THAT ONE HALF THE WORLD DOES NOT KNOW **HOW THE OTHER HALF LIVES.**” THAT WAS TRUE THEN. IT DID NOT KNOW BECAUSE IT DID NOT CARE. THE HALF THAT WAS ON TOP CARED LITTLE FOR THE STRUGGLES, AND LESS FOR THE FATE OF THOSE WHO WERE UNDERNEATH, SO LONG AS IT WAS ABLE TO HOLD THEM THERE AND KEEP ITS OWN SEAT.”



BAYARD STREET, NEW YORK CITY. FIVE CENTS LODGING. 1889

LIVING CONDITIONS: JACOB RIIS

“LONG AGO, IT WAS SAID THAT ONE HALF THE WORLD DOES NOT KNOW **HOW THE OTHER HALF LIVES.**” THAT WAS TRUE THEN. IT DID NOT KNOW BECAUSE IT DID NOT CARE. THE HALF THAT WAS ON TOP CARED LITTLE FOR THE STRUGGLES, AND LESS FOR THE FATE OF THOSE WHO WERE UNDERNEATH, SO LONG AS IT WAS ABLE TO HOLD THEM THERE AND KEEP ITS OWN SEAT.”



WEST 47TH STREET, NEW YORK CITY. MEN'S LODGING ROOM. 1892

LIVING CONDITIONS: JACOB RIIS

“LONG AGO, IT WAS SAID THAT ONE HALF THE WORLD DOES NOT KNOW **HOW THE OTHER HALF LIVES.**” THAT WAS TRUE THEN. IT DID NOT KNOW BECAUSE IT DID NOT CARE. THE HALF THAT WAS ON TOP CARED LITTLE FOR THE STRUGGLES, AND LESS FOR THE FATE OF THOSE WHO WERE UNDERNEATH, SO LONG AS IT WAS ABLE TO HOLD THEM THERE AND KEEP ITS OWN SEAT.”



SLUM DISTRICT, NEW YORK CITY. 1890

LIVING CONDITIONS: JACOB RIIS

“LONG AGO, IT WAS SAID THAT ONE HALF THE WORLD DOES NOT KNOW **HOW THE OTHER HALF LIVES.**” THAT WAS TRUE THEN. IT DID NOT KNOW BECAUSE IT DID NOT CARE. THE HALF THAT WAS ON TOP CARED LITTLE FOR THE STRUGGLES, AND LESS FOR THE FATE OF THOSE WHO WERE UNDERNEATH, SO LONG AS IT WAS ABLE TO HOLD THEM THERE AND KEEP ITS OWN SEAT.”



NEW YORK CITY. CHILDREN SLEEPING ON MULBERRY STREET. 1890

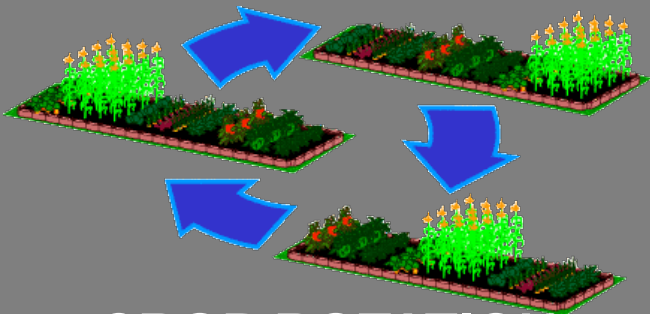
LABOR MOVEMENT

“CAPITAL IS ONLY THE FRUIT OF LABOR, AND COULD NEVER HAVE EXISTED IF LABOR HAD NOT FIRST EXISTED. LABOR IS THE SUPERIOR OF CAPITAL, AND DESERVES MUCH THE HIGHER CONSIDERATION” -ABRAHAM LINCOLN, 1861



AGRICULTURAL REVOLUTION 2.0

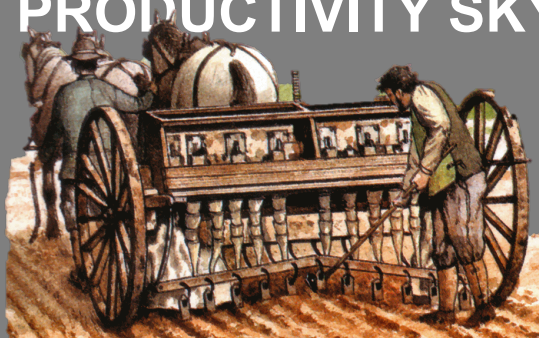
BRITISH AGRICULTURAL PRODUCTIVITY SKYROCKETS IN THIS ERA



CROP ROTATION

ROTATING CROPS INTO FALLOW FIELDS LIKE TURNIPS

(c.1700)



SEED DRILL

ECONOMICALLY PLACED SEEDS IN BEST LOCATION

(1701)



ENCLOSURE MVMT.

ENCLOSED FARMS BEGAN SCIENTIFIC FARMING

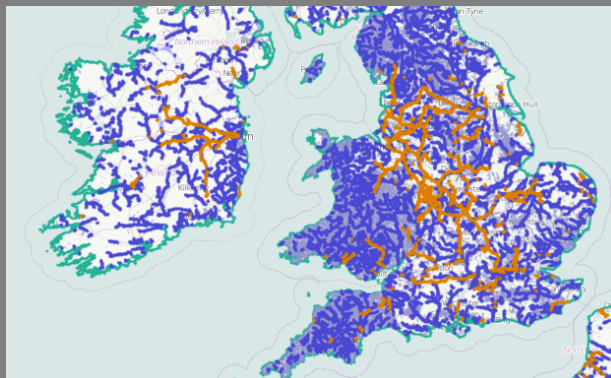
(1773)



LAND RECLAMATION

TURNING FOREST/SWAMPS & CONVERTING THEM TO FARMS

(1600s-1800s)



BRITISH WATERWAYS

BRITAIN=1ST NATIONWIDE CANAL SYSTEM (ORANGE)

(1600s-1800s)



1700

1786

SELECTIVE BREEDING

(PHRASE COINED BY DARWIN)
AVG: 1700=370 lbs. 1786=840 lbs

(1700-1900)

FROM 1700-1870, BOTH WORKER & FARMER OUTPUT TRIPLED.

THE INDUSTRIAL REVOLUTION BEGAN IN BUT, IT QUICKLY SPREAD...



1810s: **UNITED STATES OF AMERICA**

- FRANCIS CABOT LOWELL MEMORIZED MACHINES WHILE WORKING IN ENGLAND & BUILT AMERICA'S FIRST "FACTORY" IN 1813

1825: **BELGIUM**

- FORMER ENGLISHMAN JOHN COCKERILL TRANSPLANTED HIS FAMILY BUSINESS

1830s: **FRANCE**

- INDUSTRIALIZATION WAS SLOW AFTER THE 25+ YEARS OF WARFARE IN FRANCE

1840s: **GERMANY**

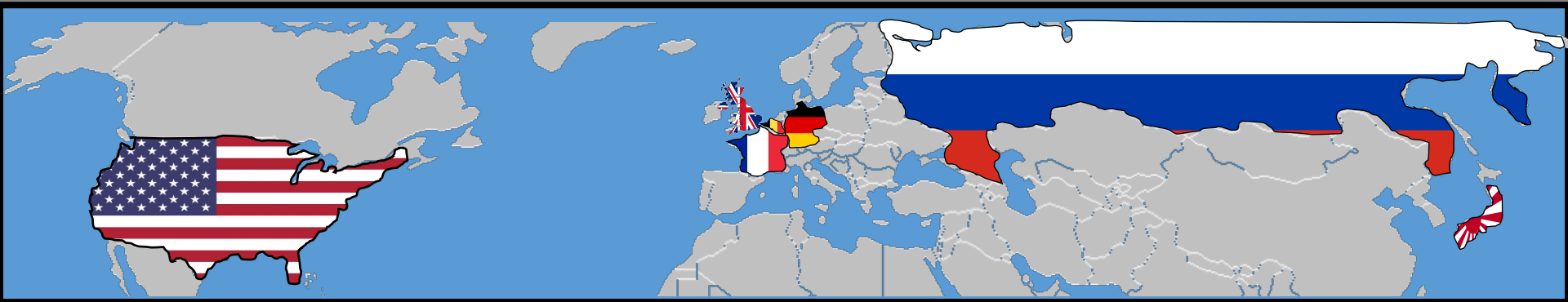
- BEGINNING IN 1840s & TAKING OFF AFTER UNIFICATION (1871), GERMANY CAME TO RIVAL THE BRITISH INDUSTRIAL OUTPUT (*GERMANY=#1 INDUSTRIALIZED NATION IN THE WORLD BY 1914*)

1870s: **JAPAN**

- JAPANESE INDUSTRIALIZATION FOLLOWED THE MEIJI RESTORATION (RAPID MODERNIZATION)

1890s: **RUSSIA**

- TSAR NICHOLAS II BEGAN SLOW PROCESS OF INDUSTRIALIZATION LAGGING BEHIND THE WEST



INDUSTRIAL REVOLUTION 2.0

AKA THE TECHNOLOGICAL REVOLUTION, WAS THE RAPID INCREASE IN INNOVATION FROM 1870s INTO THE 20TH CENTURY W/INTRO OF CHEMS, STEEL, PRECISION MACHINERY

MVP - HENRY BESSEMER: CREATED BESSEMER PROCESS
• CHEAPER, FASTER, MORE PURE STEEL... RESULTS:

OTHER MAJOR INNOVATIONS FROM THE 2ND INDUSTRIAL REVOLUTION:



AMERICAN RR
COMPLETION OF
TRANS-CONT. RR
(1869)



ELECTRICITY
MICHAEL FARADAY'S (#23)
WORK IN ELECTRO
MAGNETISM LEADS TO
DIRECT CURRENT
(1820s)



LIGHT BULB
THOMAS EDISON (#35)
MAKES A BETTER, LONGER
LASTING, LIGHT BULB
(1879)



VULCANIZATION
CHARLES GOODYEAR,
LATER JOHN DUNLOP
MADE RUBBER MORE
DURABLE (1840, 1871)



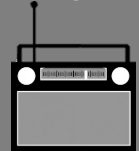
IRON SHIPS
HMS DEVASTATION= 1ST
IRON OCEAN GOING SHIP
WITH NO SAIL (1871)



AUTOMOBILE
KARL BENZ PATENTS FIRST
AUTOMOBILE
(1886)



ASSEMBLY LINE
HENRY FORD'S (#91) ASSEMBLY
LINE; NEW MODEL T EVERY 24s;
1923=1/2 OF ALL CARS=FORD
(1886)



RADIO
GUGLIELMO
MARCONI (#38)
INVENTS RADIO
(1896)



TELE-
GRAPH=1837
PHONE=BELL (#42)
IN 1876



GLOBAL EFFECTS

EXTENSIVE MINING CENTERS

MEXICO S. AFRICA

- RANCHER FOUND COPPER, ZINC, COBALT, MANGAN. DEPOSITS IN 1868
- FRENCH, GERMAN & MEXICAN CO.s EXTRACT THE METALS INTO 1980s
- HUGE DIAMOND DEPOSIT DISCOVERED
- BRITISH ATTEMPTS TO ANNEX THESE MINES LED TO 1ST BOER WAR (WHICH THEY LOST TO THE S. AFR REPUBLIC)

ECON DECLINE

INDIA

- ONCE VIBRANT ECONOMY UNDER MUGHALS
- TURNED TO EXPORT ECONOMY: COTTON

TRANS-NATIONAL BUSINESSES

S. AMER

- UNITED FRUIT Co. (USA)
- NEAR MONOPOLY ON BANANA TRADE
- BANANA REPUBLICS

HSBC

- 1865: FOUNDED IN HONG KONG
- 6TH LARGEST BANK ON EARTH



VARIOUS REFORMS

GERMANY BRITAIN

- OTTO VON BISMARCK PASSED OLD AGE & DISABILITY INSURANCE BILL (1889)
- PENSION FOR 65+ (EX: US SOC SEC=1935)
- EXPANDED VOTING: 1832: LAND OWNING MALES (1/7 OF POP)
- 1867: URBAN MALES w/PROPERTY
- 1918: MEN 21+ WOMEN 30+

STATE-SPONSORED INDUSTRIALIZATION

EGYPT CHINA RUSSIA JAPAN

- MUHAM. ALI NATIONALIZED THE COTTON INDUSTRY
- MODERNIZED INDUS/MILIT. TOO
- 'SELF STRENGTHEN. MOVEMENT' AFTER OPIUM WRS UNSUCCESSFUL
- MODERNIZ. IN 1897!!!!!!!!!!!!!!!!!!!!
- BEGAN BUILDING TRANS SIBERIAN RAILROAD (1891)
- MEIJI RESTOR. BEGAN 1870 AS GOV'T CAUGHT UP w/WEST GOV'T SPONS.



GLOBAL EFFECTS

DECLINE OF ASIAN/MIDDLE EAST SHARE IN GLOBAL MANUFACTURING:

IRONWORKS IN INDIA

INDIAN IRONWORKS PRIOR TO THIS PERIOD WERE WORLD RENOWNED (SEE MUGHALS). BUT BRITISH ARRIVAL/COLONIZATION LED THE BRITS TO SHUT DOWN/OUTLAW THE MINES AS IRON COULD BE USED TO HELP AID REBELLIONS AGAINST THE BRITISH RAJ

SHIPBUILDING IN INDIA/SE ASIA

SIMILAR TO IRON, AS THE BRITISH CAME IN, SHIPBUILDING IN INDIA WAS RESTRICTED OF COMMANDEERED FOR BRITISH USE. SE ASIA WAS SIMILARLY AFFECTED BY CHINESE, PORTUGUESE, & DUTCH ARRIVAL IN THE SPICE TRADE.

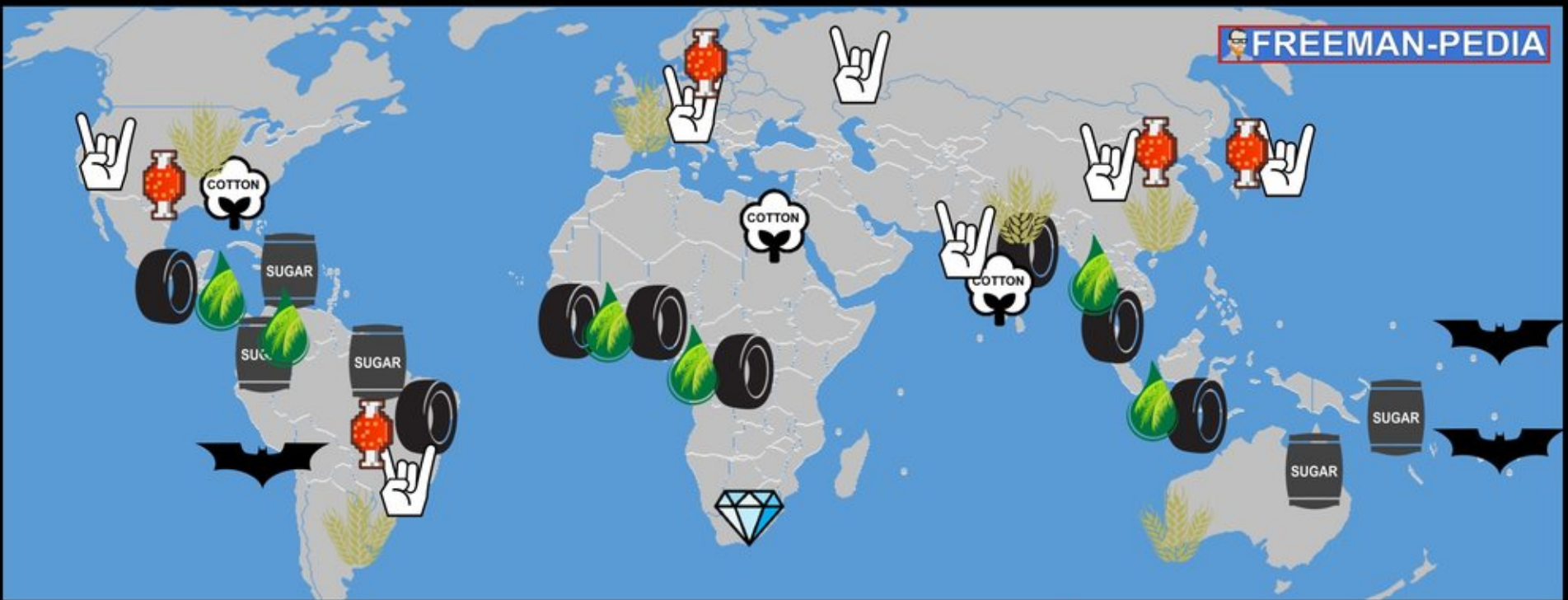
TEXTILE PRODUCTION IN INDIA AND EGYPT

BOTH WERE IMPORTANT CENTERS FOR TEXTILE PRODUCTION BUT WERE OUTPACED BY EUROPEAN INDUSTRIAL PROWESS LEADING TO A DECLINE IN THEIR DOMINANCE.

GLOBAL EFFECTS

NATURAL RESOURCES PRODUCTION FOR EXPORT:

FREEMAN-PEDIA




COTTON

SUGAR

GUANO


RUBBER

WHEAT

METALS

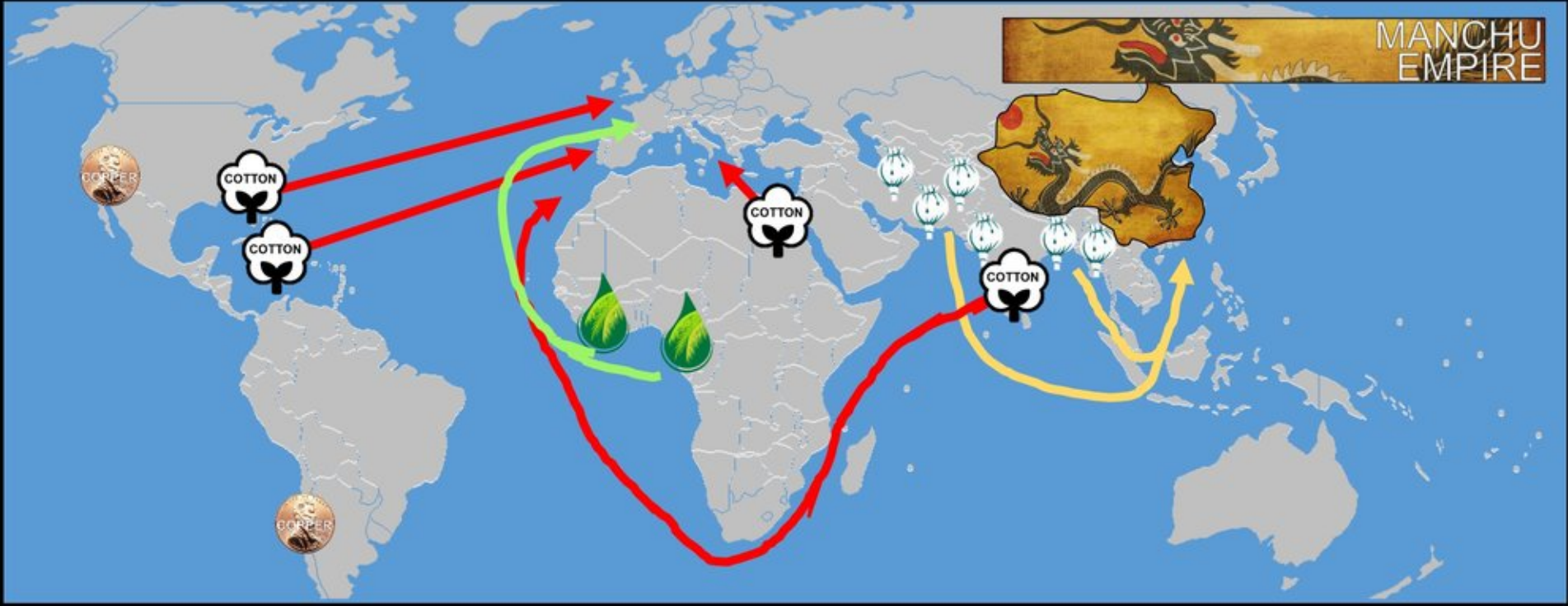

PALM OIL

MEAT

DIAMONDS

GLOBAL EFFECTS

COMMODITIES CONTRIBUTING TO THE EXPANSION OF THE 19TH CENTURY GLOBAL ECONOMY  FREEMAN-PEDIA



 COTTON  OPIUM  PALM OIL  COPPER

DEMOGRAPHICS

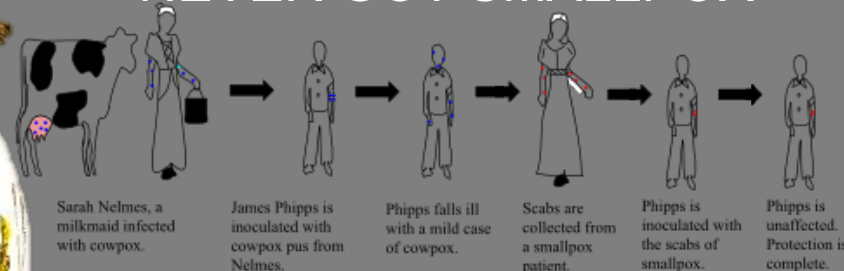
BBC FOUR



MEDICINE

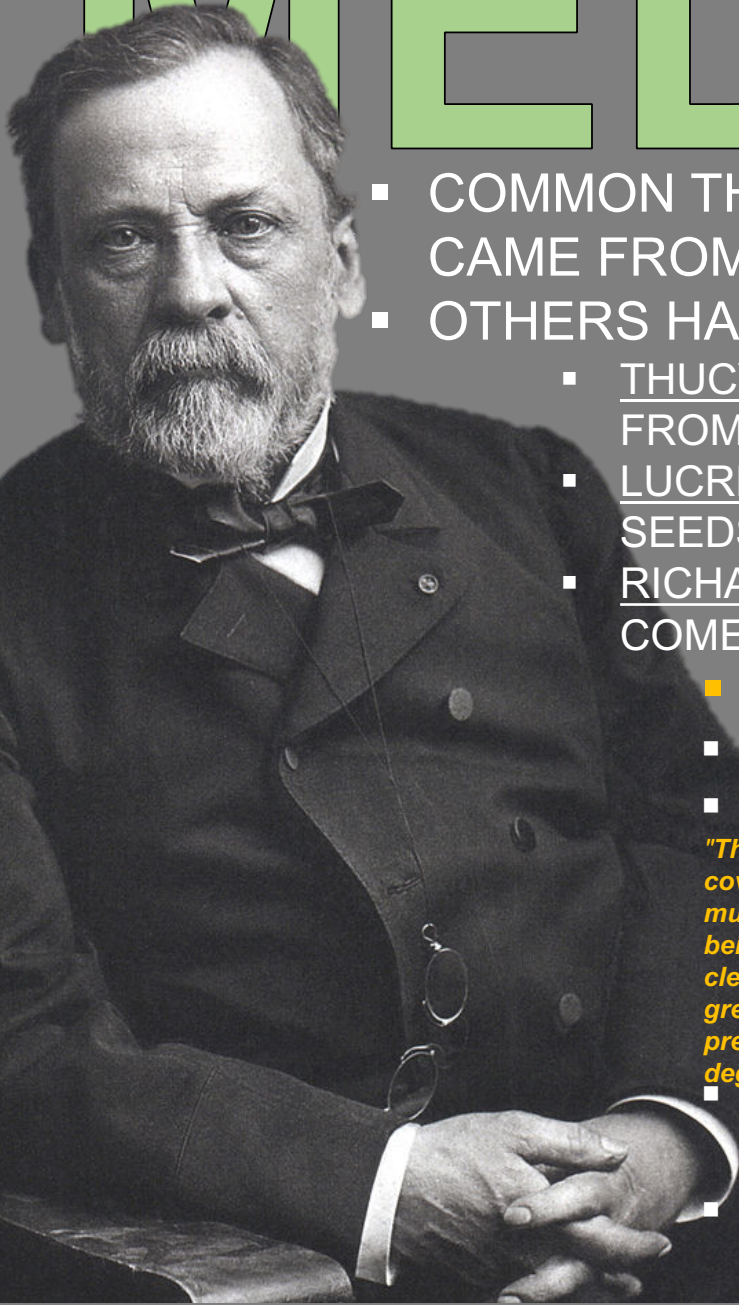
- BETWEEN 16,000-68,000 YEARS AGO, AN AFRICAN RODENT TRANSMITTED *VARIOLA MAJOR* TO HUMANITY (SMALLPOX)
 - EARLIEST KNOWN VICTIM: **PHAROAH RAMSES V** (1145 BCE)
 - 18TH CENT: **KILLED ≈500K PEOPLE A YEAR** IN EUROPE
 - MORTALITY RATE=35-60% (80% IN CHILDREN)
 - KILLED FIVE 18TH CENTURY MONARCHS!
 - RESPONSIBLE FOR 1/3 OF ALL BLINDNESS

- ENTER **EDWARD JENNER** (#70)
 - NOTICED MILKMAIDS NEVER GOT SMALLPOX



- “SAVED MORE LIVES THAN ANY OTHER HUMAN”
- 1977=LAST NATURAL CASE
- 1 of 2 DISEASES ERADICATE
(OTHER WAS *RINDERPEST*= VIRAL COW DISEASE)

MEDICIN



- COMMON THINKING WAS THAT DISEASE CAME FROM BAD AIR (MIASMA THEORY)
- OTHERS HAD CHALLENGED THIS IDEA:
 - THUCYDIDES (400 BCE): PLAGUE SPREAD FROM PERSON TO PERSON
 - LUCRETIUS (55 BCE): DISEASES HAVE SEEDS THAT COULD SPREAD
 - RICHARD BRADLEY (1720): DISEASES COME FROM TINY POISONOUS INSECTS
 - **LOUIS PASTEUR** (1822-95)
 - “FATHER OF MICROBIOLOGY”
 - PIONEERED GERM THEORY

"This water, this sponge, this lint with which you wash or cover a wound, may deposit germs which have the power of multiplying rapidly within the tissue....If I had the honor of being a surgeon....not only would I use none but perfectly clean instruments, but I would clean my hands with the greatest care...I would use only lint, bandages and sponges previously exposed to a temperature of 1300 to 1500 degrees."
 - DISPROVED SPONTANEOUS GENERATION
 - PASTEURIZATION (KILLS MICROBES IN FOOD/DRINK)

MOST INFLUENTIAL PEOPLE OF ALL TIME:

1. MUHAMMAD (PBUH)
2. NEWTON
3. JESUS
4. BUDDHA
5. CONFUCIUS
6. ST. PAUL
7. TS'AI LUN
8. GUTENBERG
9. COLUMBUS
10. EINSTEIN
11. **PASTEUR**
12. GALILEO
13. ARISTOTLE
14. EUCLID
15. MOSES
16. DARWIN
17. QIN SHIHUANGDI
18. AUGUSTUS C.
19. COPERNICUS
20. LAVOISIER
21. CONSTANTINE
22. JAMES WATT

(MICHAEL K HART'S THE 100)

ABOLITION

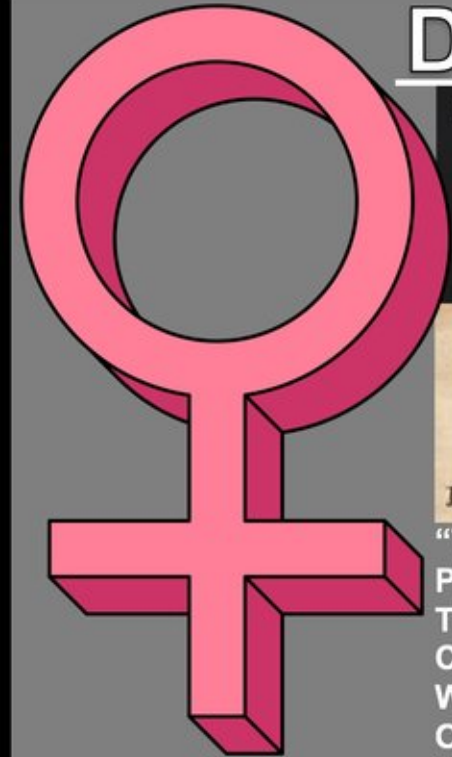


- GREAT BRITAIN WAS THE FIRST TO BAN SLAVERY (1833)
 - US NOT UNTIL THE CIVIL WAR ('65)
- DIFFERENT PARTIES WERE PUSHING TO END SLAVERY:
 - 1. OPPOSED IT MORALLY
 - 2. OPPOSED IT ECONOMICALLY
 - 3. PREFERRED CHEAP LABOR



SUFFRAGE

DEMAND FOR WOMEN'S RIGHTS:



MARY WOLLSTONECRAFT



(1792)

VINDICATION
OF THE
RIGHTS OF WOMAN:

"THAT IF WOMAN BE NOT PREPARED BY EDUCATION TO BECOME THE COMPANION OF MAN SHE WILL STOP THE PROGRESS OF VIRTUE."

OLYMPE DE GOUGES



DÉCLARATION DES DROITS DE LA FEMME ET DE LA CITOYENNE,
A décréter par l'Assemblée nationale dans ses dernières séances ou dans celle de la prochaine législature. (1791)

"WOMEN ARE BORN AND REMAIN FREE AND EQUAL. ALL CITIZENS, INCLUDING WOMEN ARE EQUALLY ADMISSABLE TO ALL (PUBLIC OFFICES)."

SENECA FALLS CONVENTION



(1848)

Declaration of Sentiments
ADOPTED BY THE PEACE CONVENTION.
HELD AT SENECA FALLS, SEPTEMBER 19, 20 AND 21, 1848.

"WE HOLD THESE TRUTHS TO BE SELF EVIDENT, ALL MEN AND WOMEN ARE CREATED EQUAL."

 FREEMAN-PEDIA

- NOT NEW! WOMEN HAVE BEEN FIGHTING FOR CENTURIES
 - EX: OLYMPE DE GOUGES (1748-1793)
- IF WOMEN COULD WORK IN FACTORIES...
 - SHOULDN'T THEY BE ABLE TO VOTE?!?!
- TIMELINE: GER (1918), UK (1918), USA (1920)
 - VOCABULARY MATTERS...

MARXIST THEORY

Congratulations. You just lived Marxist theory. Now, let's take a second and go back and break down your experience vs. what Karl Marx said would happen...

MARXIST THEORY

- MERCANTILISM WOULD GIVE WAY TO CAPITALISM
 - ECONOMIC SYSTEM IN WHICH A COUNTRY'S TRADE/INDUSTRY ARE CONTROLLED BY PRIVATE OWNERS FOR PROFIT
 - FREEDOM OF COMPETITION
 - Laissez-faire (LET DO)
 - RESULTS: UNEQUAL ECONOMIC CLASSES

ROCK PAPER SCISSORS

- EVERYONE STARTED WITH THEIR OWN EXTRA CREDIT POINTS
- EVERYONE PLAYED PAPER ROCK SCISSORS
 - TEACHER DID NOT GET INVOLVED
 - TEACHER LET YOU DO WHAT YOU DO
- SOME PEOPLE WON
- OTHERS LOST
- RESULTS: UNEQUAL ACADEMIC CLASSES



CAPITAL IS VAMPIRE-LIKE,
ONLY LIVES BY FEEDING ON LABOR.

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MARXIST THEORY

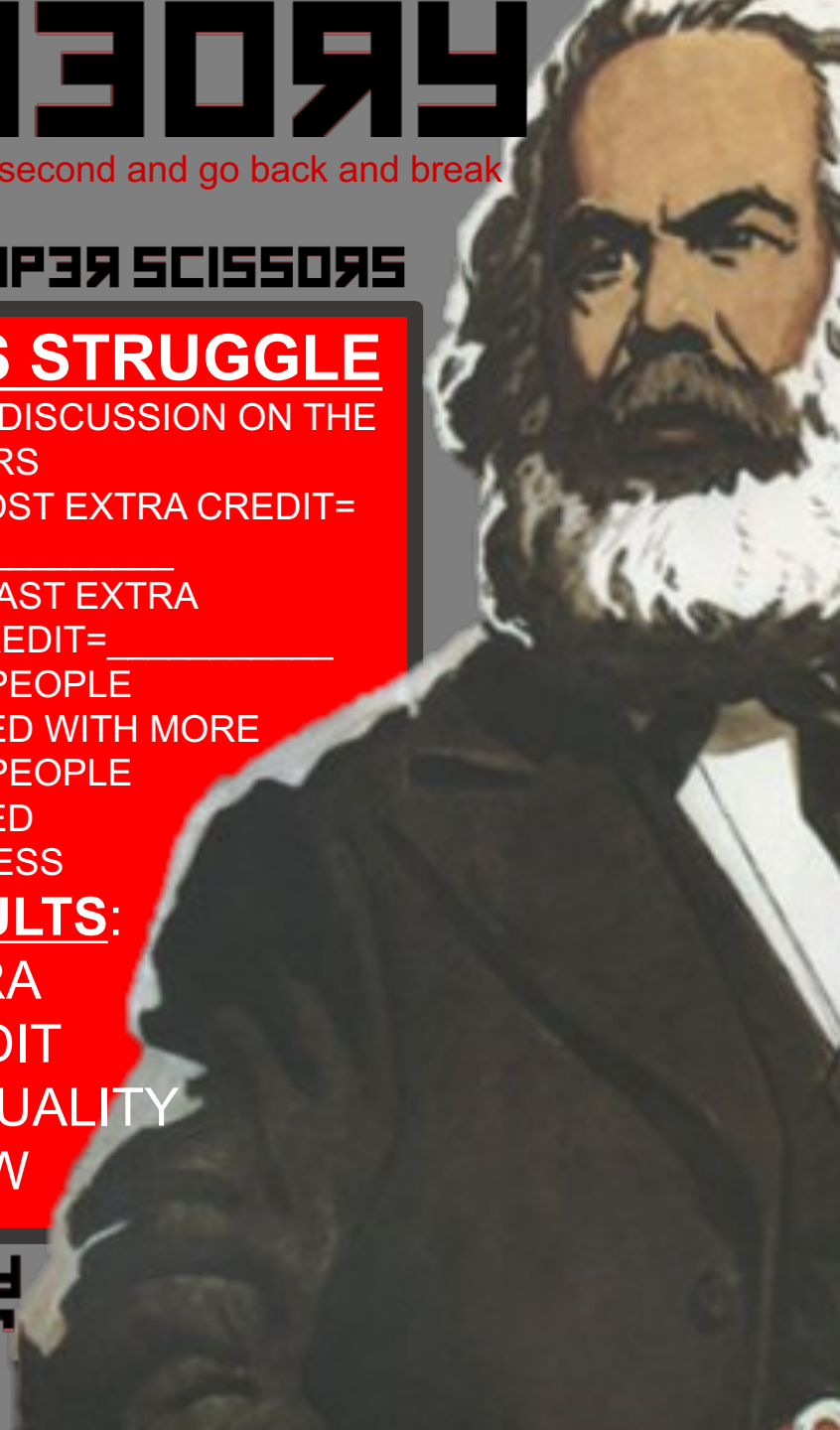
CLASS STRUGGLE

- UPPER CLASS & WORKING CLASS STRUGGLE OVER WEALTH
- NOT ALWAYS VIOLENT OR RADICAL
 - STRIKES
 - LOCKOUTS
- RESULTS: ECONOMIC INEQUALITY GROWS

ROCK PAPER SCISSORS

CLASS STRUGGLE

- CLASS DISCUSSION ON THE WINNERS
 - MOST EXTRA CREDIT= _____
 - LEAST EXTRA CREDIT= _____
- SOME PEOPLE STARTED WITH MORE
- SOME PEOPLE STARTED WITH LESS
- RESULTS: EXTRA CREDIT INEQUALITY GREW



THE CLASS STRUGGLE NECESSARILY LEADS TO THE DICTATORSHIP OF THE PROLETARIAT

MARXIST THEORY

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MARXIST THEORY

WORKER'S STRUGGLE

- WORKING CLASSES PLAN REVOLTS
- GOAL=OVERTAKE UPPER CLASSES
- GAIN CONTROL OF MEANS OF PROD.

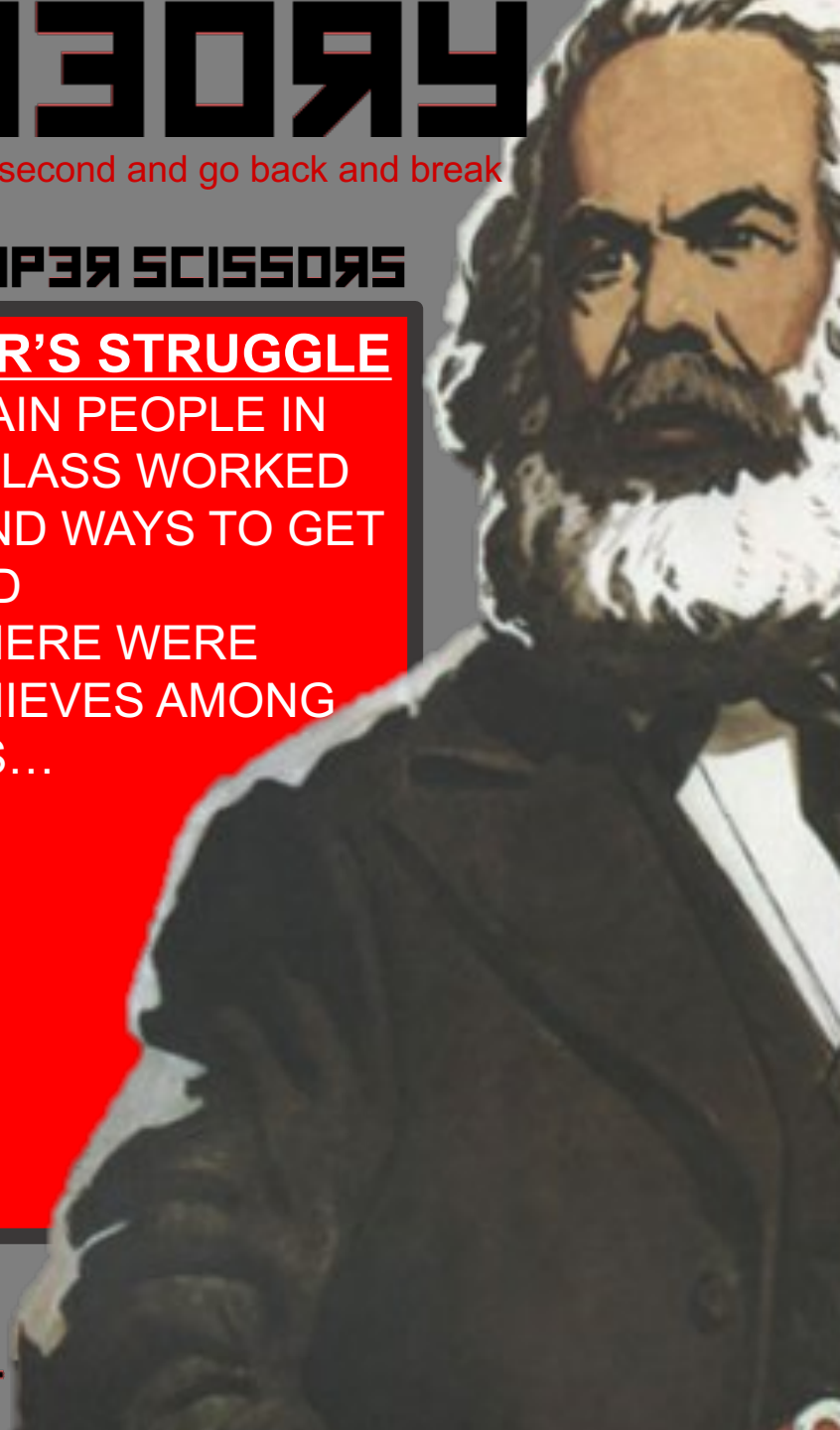


ROCK PAPER SCISSORS

WORKER'S STRUGGLE

- CERTAIN PEOPLE IN THE CLASS WORKED TO FIND WAYS TO GET AHEAD
 - THERE WERE THIEVES AMONG US...

**WHERE THEY STAND FACE TO FACE,
WHICH WILL ITSELF RESULT THE STRUGGLE
EVENTUATE IN THE EMANCIPATION OF THE PROLETARIANS.**



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MARXIST THEORY

ROCK PAPER SCISSORS

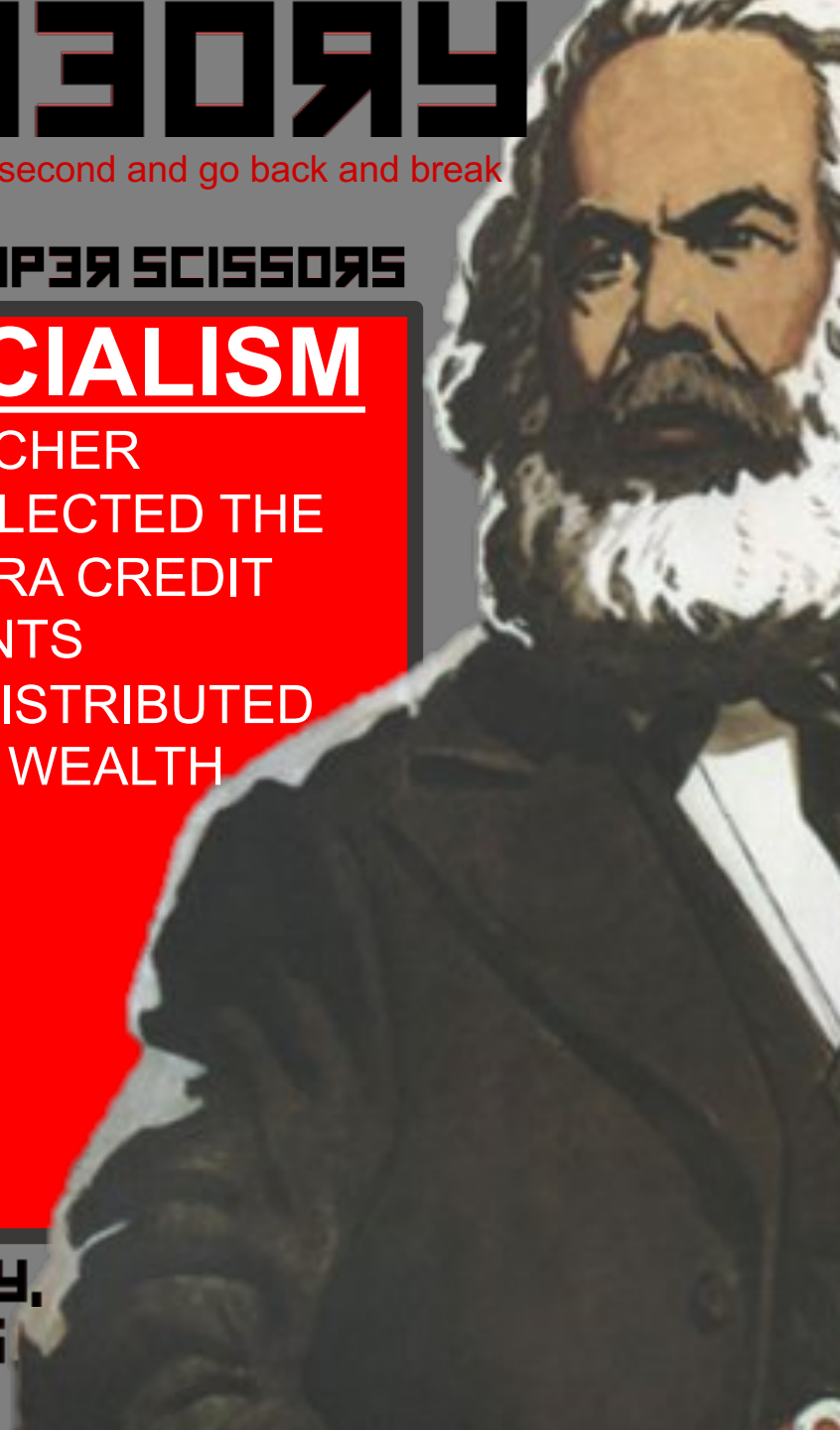
SOCIALISM

- GOVERNMENT TAKES CONTROL OF MAJOR INDUSTRIES
- GOAL= CLASSLESS SOCIETY

SOCIALISM

- TEACHER COLLECTED THE EXTRA CREDIT POINTS
- REDISTRIBUTED THE WEALTH

FROM EACH ACCORDING TO HIS ABILITY,
TO EACH ACCORDING TO HIS NEEDS



MARXIST THEORY

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MARXIST THEORY

COMMUNISM

- CLASSLESS SOCIETY ACHIEVED
- NO GOVERNMENT NEEDED



ROCK PAPER SCISSORS

COMMUNISM

- YOU QUIT...
- NO DESIRE FOR EXTRA CREDIT

COMMUNISM IS THE RIDDLE OF HISTORY SOLVED

