

# KEY TERMS BY THEME

## TECHNOLOGY: Textiles

spinning jenny  
water frame  
James Hargreaves  
Richard Arkwright  
factory system

## TECHNOLOGY:

Agriculture  
agricultural revolution  
crop rotation  
seed drill

## ECONOMY: Manufacturing

Industrial Revolution  
industrialization  
cottage industry  
Eli Whitney  
interchangeable parts  
division of labor  
specialization of labor  
assembly line  
enclosure movement  
capital

## ENVIRONMENT: Britain

seaways  
raw materials  
Manchester  
Liverpool



Industrial Revolution

Industrialization

The dramatic change in Society & Economics through new technologies

- increased mechanization of production & Social Changes
- Outputs: reshape society / world pop ↑ / farm → City life / production + consumption of Goods ↑

## Agriculture Improvements

- Agricultural Revolution = food boom : Crop rotation - rotate fields each yr. / Seed drill - efficient seed placement
- \* pop. increase from food being more available = more workers → produce more foods

## Cottage Industry / Preindustrial Society

- Establishment of maritime Empires = spread of Indian cotton + High Demand
- Britain compete w/ Indian cotton through established slave labor in Americas - picking
- "Putting-out System", merchants provide cotton to women for spinning to finished cloth

## Growth of Technology

Invents Spinning jenny - more than one thread & Water frame - waterpower to drive wheel → Richard Arkwright patents it

Father of factory system - water frame = movement from home → factory work

Eli Whitney - \* originally for firearms \* if a part broke, it could be seamlessly replaced → labor developed to other tech

Where workers no longer had to be multi-versed: specialization in one, not multiple, fields of work

Henry Ford - takes \* division of labor \* and produces products more efficiently

## Britain and Industrial Revolution Adv.

- **Advantages:** Seaways = access to Import & Export goods (raw → finished goods) / coal deposits = steam engine + iron → steel = better structure
  - **Splurge in Colonies:** excess capital leads to commercial ventures of colonies = more resources
  - **Rivers:** inexpensive cross-state transportation of goods
  - **Fleets:** Strong navy = strong defense for seamless commercial trade internationally
  - **Private Property:** Assurance that businesses / factories would not be seized by Gov't - legal protection
  - **Pop + Urbanization:** less hungry & less farmers;
  - enclosure movement: Gov't push to take village-owned land and fence it in for agricultural use
  - Leads to demographic change: Manchester + Liverpool populate; farmers rural → urban
- actually enclosing land to keep outsiders out - wealthy buys into this and gets great profit

● Growing cities

Coal fields

0

100 Miles

0

100 Kilometers

