

# Industrial Revolution



# The Beginning



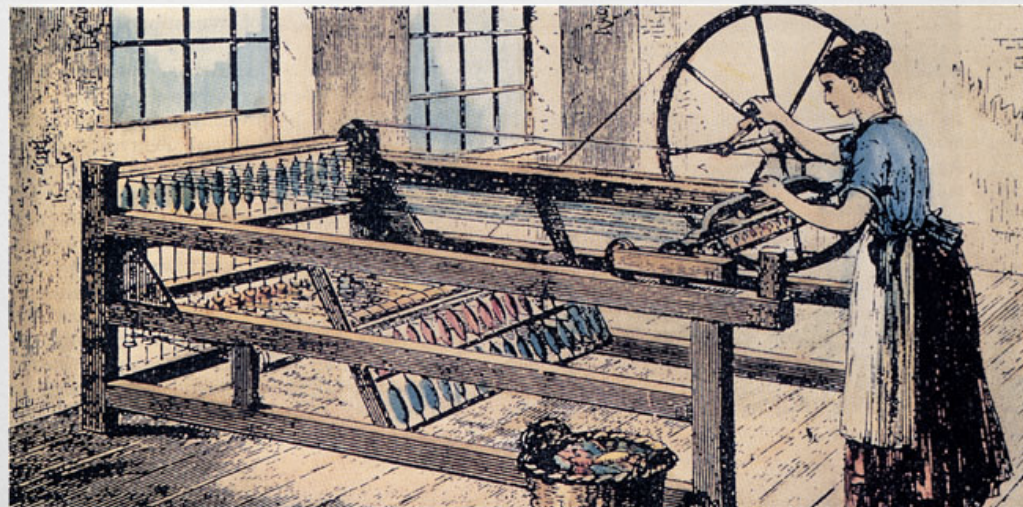
- ❧ Before there was a revolution, people would farm in rural areas to provide for themselves
- ❧ They would produce their own clothes, food, housing, tools, and furniture
- ❧ Small factories were soon to be built to make production of goods faster and easier and less work for workers



# Industrialization Part 1



- ❧ In 1764, James Hargreaves invented the “spinning jenny” (jenny: engine)
- ❧ It was used for a person to produce multiple spools of thread simultaneously
- ❧ Over 20,000 spinning jennys were used after Hargreaves death



# Industrialization Part 2



- ❧ Iron and Steel were two of the main elements in the Industrial Revolution
- ❧ Abraham Darby invented an easier method to produce cast iron, using a coke-fueled furnace (as opposed to charcoal)
- ❧ Henry Bessemer developed the first inexpensive process for mass-producing steel
- ❧ Iron and Steel were used to make: appliances, tools and machines, boats, and buildings



# Industrialization Part 3



- ❧ In 1712, Thomas Newcomen developed the first practical steam engine
- ❧ Originally used to pump water out of mines
- ❧ New tweaks were made and the steam engine was used to power machinery, locomotives, and ships

**Single Action Steam Engine**

