

Welcome

First and second industrial revolution

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First and second industrial revolution

- The first , or old , industrial revolution took place between about 1750 and 1870
- Took place in England , the United States , Belgium , and France
- The second industrial revolution took place between about 1870 and 1960
- Saw the spread of the industrial revolution to places such as Germany , Japan , and Russia

First industrial revolution

- Machines were invented which replaced human labour
- New energy sources were developed to power the new machinery – water , steam , electricity , oil (gas , kerosene)
- Increased use of metals and minerals . Aluminium , coal , copper , iron , etc.

Second industrial revolution

- Electricity became the primary source of power for factories , farms, and homes
- Mass production , particularly of consumer goods
- Use of electrical power saw electronic enter the marketplace (electric lights, radios , fans television sets)

The industrial revolution

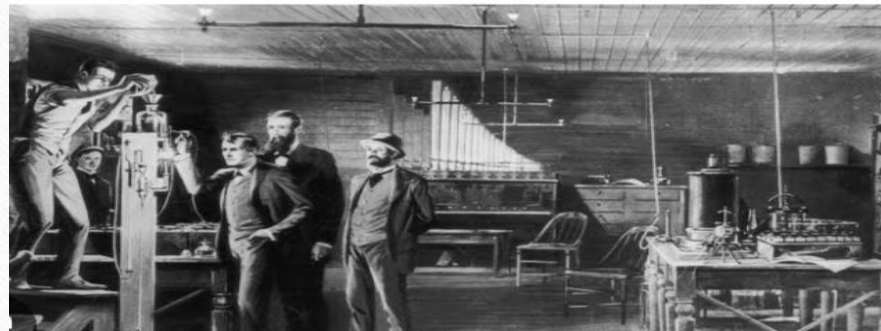
- Transportation

Improved



- Communication

Improved



Industrial revolution impact of civil engineering

- Construction of bridges , Tunnels , Canals , Roads , Dams , Retaining walls , Multi storied buildings , Airports etc.
- Led to new innovations in engineering and provided employment to many.



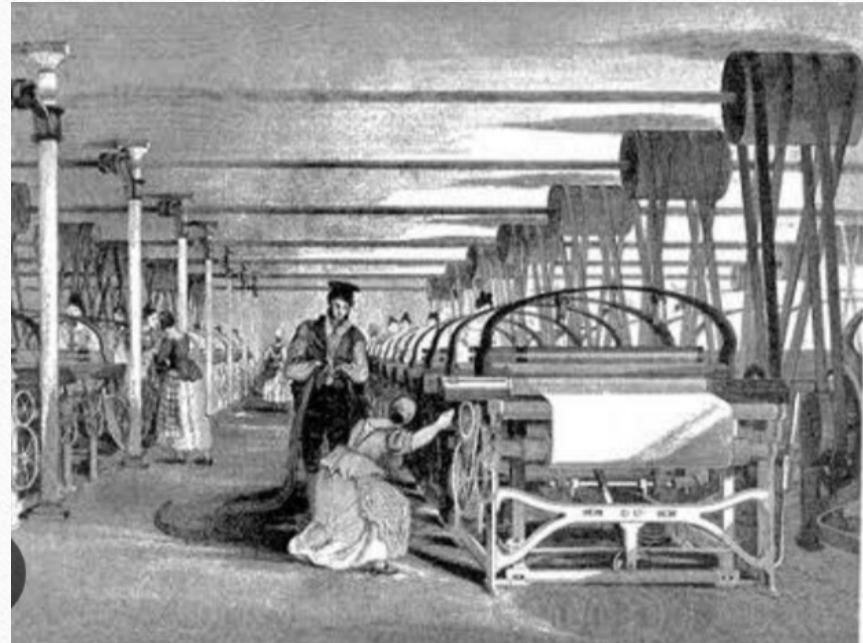
The industrial revolution causes

- First industrial revolution causes
 1. Technological advancements
 2. Economic Growth
 3. Urbanization
 4. Improved Transportation



The industrial revolution causes

- Second industrial revolution causes
 1. Innovation and invention
 2. Mass production
 3. Economic expansion
 4. Improved living standards



Result of industrial revolution

1. Economic change
2. Political change
3. Social change



Thank
you