

Summary for Topic: Steam engine

- Heron of Alexandria invented a steam engine in 50 AD, but it was not used to power factories.
- The jet/steam turbine was also invented in ancient China, but it was not used for industrial purposes.
- The steam engine was initially developed as a solution to a problem faced by the navy, which needed special large trees to build ships but was running out of wood.
- Overnight, Britain switched from wood to coal as a

Summary for Topic: Denis Papin

- Denis Papin was an unfortunate French inventor who was not well-received by the British due to their dislike for the French.
- In 1690, Papin invented the first piston steam engine, which later powered the industrial revolution steam engine.
- Papin's invention was based on ancient documents, and he communicated his ideas to notable scientists such as Robert Boyle, Robert Hooke, Thomas Savery, and Isaac Newton.

Summary for Topic: Factory - new technology of labour organization

- Workers removed from families/homes, paid minimal wages
- Destroyed old system with bad wages that people couldn't afford food
- At the time, poverty was seen as a punishment from God, as a sin
- When fathers at factories couldn't provide, wives and children started working
- People started dying due to poor working conditions
- Made the few factory owners extremely wealthy
- The Silk Mill in Derby is an example of

Summary for Topic: Queen Victoria 1819 - 1901

- The Royal Commission was established by Prince Albert to integrate art and industries, and to promote competition for design.
- The Commission aimed to improve the working conditions for people in factories, as people began to realize the poor conditions and the impact on productivity.
- The Commission's approach was to use social programs to improve the lives of workers, with the belief that "people who are well fed provide higher quality work."
- However, the Commission's efforts were met with

Summary for Topic: Fruits of the industrial revolution - bring industries and arts together - Great exhibition of 1851

- Grand piano invented, around this time
- First printer scanner and fax machine invented by Alexander Bain
 - Operated with electrochemistry
 - 2 electric pendulums that moved the scanning line by line
 - Special ink, that can be read by electrical signals
 - 1865 first fax line
 - Incredible quality for the time
 - Used to confirm peoples signature (banks)

Summary for Topic: Singer machine - sowing machine (Domestic revolution)

- First machine to have applied art: The Singer machine was the first machine to have applied art, with decorative drawings on the machine that made it look more appealing to women.
- First time a machine was designed towards women: The Singer machine was the first time someone built a machine that was designed towards women at the time, giving them the independence which was very revolutionary at the time since most women were dependent

on their husbands for money.

- Allowed women to