



TEACHER RESOURCE PACKAGE

Chapter 1: Overview: the making of the modern world (1750–1918) – Additional research task and suggested response

Additional Research 1.1

The Industrial Revolution and the Age of Industry would not have been possible without the contributions of some remarkable people. The list below is a catalogue of some of the more famous inventors and pioneers of the industrial age. This is by no means the definitive list as countless numbers of people were involved in inventing and applying modifications and improvements to original designs and processes that contributed to the progress of the era. Chart a timeline using the list below and map the progress of invention and discovery throughout the industrial age. You can use an online program to create this timeline. There are a number of programs available such as Dipity, TimeRime, TimeToast, Capzies, Xtimeline, Timeglider or Tiki Toki. Discuss with your teacher which one is most appropriate for your class.

Your timeline must show:

- name of the inventor or pioneer
- name of the invention or discovery
- date of the invention or discovery (usually when the design was patented)
- area in which the invention or discovery was applied; the categories for these are:
 - industry
 - manufacturing
 - communications
 - transport
 - armaments
 - agriculture
 - building and construction.

When showing these on a timeline you may want to create a legend. So, for instance, inventions or discoveries that come under the category of manufacturing may be highlighted in red. It is up to you how you do this. Your system must be clearly apparent to your audience.

Once you have completed your timeline, chose three of the inventors or pioneers listed and provide a brief report on their invention or discovery and discuss how their inventions or

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List of inventors or pioneers

- Richard Arkwright
- Alexander Graham Bell
- Karl Benz and Gottlieb Daimler
- Henry Bessemer
- Samuel Colt
- Samuel Crompton
- Louis Daguerre
- Thomas Edison
- Henry Ford
- Robert Fulton
- Richard Gatling
- Charles Goodyear
- James Hargreaves
- Joseph-Marie Jacquard
- Auguste and Louis Lumière
- John Loudon McAdam
- Cyrus McCormick
- Samuel Morse
- Nicéphore Niépce
- Alfred Nobel
- Elisha Graves Otis
- Alois Senefelder
- George Stephenson
- Alessandro Volta
- James Watt
- Eli Whitney

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This image shows a full page of blank, lined paper. It features approximately 20 horizontal black lines spaced evenly apart, typical of notebook or legal stationery. The lines extend across the entire width of the page, leaving small margins at the top and bottom. There are no vertical lines, text, or other markings present.



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Suggested response

Student responses will vary. However, responses should follow the guidelines below.

- The objective of this task is to get students to develop their research and analysis skills.
- Make some judgments about the more significant inventions or discoveries of some of the people listed (if they are credited with a number of discoveries and inventions).
- Explain their choices.
- Make some judgments about an appropriate date for each invention and discovery.
- The list below has mostly used patent dates or dates of official release to determine dates.

Inventor	Invention or discovery	Category
James Hargreaves (1720–1778)	Spinning jenny 1764	Manufacturing
Richard Arkwright (1732–1792)	Spinning frame 1769	Manufacturing
Samuel Crompton (1753–1827)	Spinning mule 1779	Manufacturing
James Watt (1736–1819)	Steam engine 1776	Industry
Alessandro Volta (1745–1827)	Electric battery 1800	Industry
Joseph-Marie Jacquard (1752–1834)	Jacquard loom 1804	Manufacturing
John Loudon McAdam (1756–1836)	Macadamisation 1816	Building and construction
Nicéphore Niépce (1765–1833)	Photograph 1825	Communications
Robert Fulton	Steamboat 1807	Transport



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(1765–1815)		
Eli Whitney (1765–1825)	Cotton gin 1793	Manufacturing
Alois Senefelder (1771–1834)	Lithography 1796	Communications
George Stephenson (1781–1834)	Steam locomotive 1814	Transport
Louis Daguerre (1787–1851)	Daguerreotype 1839	Communications
Samuel Morse (1791–1872)	Morse code 1830s	Communications
Charles Goodyear (1800–1860)	Vulcanised rubber 1839	Industry
Cyrus McCormick (1809–1884)	Mechanical reaper 1834	Agriculture
Elisha Graves Otis (1811–1861)	Safety elevator 1854	Building and construction
Henry Bessemer (1813–1898)	Bessemer process for the production of inexpensive steel 1856	Industry
Samuel Colt (1814–1862)	Colt revolver 1835	Armaments
Richard Gatling (1818–1903)	Gatling gun 1861	Armaments
Alfred Nobel (1833–1896)	Dynamite 1867	Industry
Karl Benz (1844–1929) and Gottlieb Daimler (1834–1900)	Petrol powered automotive 1885–86	Transport
Thomas Edison (1847–1931)	Electric light 1879	Industry
Alexander Graham Bell	Telephone 1876	Communications



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(1847–1922)		
Auguste Lumière (1862–1954) and Louis Lumière (1864–1948)	Motion picture 1895	Communications
Henry Ford (1863–1947)	Pioneer of the assembly line in manufacturing 1908–15	Manufacturing