




SCIENCE AND TECHNOLOGY 11

TRANSPORTATION UNIT

The History of Transportation

http://inventors.about.com/library/inventors/bl_history_of_transportation.htm

1. Working in groups of no more than four, use the chart below and the link provided above, or on our website (<http://cheungphysics.weebly.com>) to prepare a PowerPoint presentation (PPP) on "The History of Transportation". You must use a common theme and come up with a way to assemble your presentation. Remember to label your section with your name.
2. After completing your group PPP choose one of the expansion topics listed at the bottom of the next page. Prepare a 5~10 pages **INDIVIDUAL PPP** on that topic. Remember to include a title slide and a bibliography.
3. Submit the **group ppp** and **individual ppp** online via the class website.

	 
3500 BC	Fixed wheels on carts are invented - the first wheeled vehicles in history. Other early wheeled vehicles include the chariot.
3500 BC	River boats are invented - ships with oars
2000 BC	Horses are domesticated and used for transportation.
181-234	The wheelbarrow is invented.
770	Iron horseshoes improve transportation by horse
1492	Leonardo da Vinci first to seriously theorize about flying machines - with over 100 drawings that illustrated his theories on flight
1620	Cornelis Drebbel invented the first submarine - an human oared submersible
1662	Blaise Pascal invents the first public bus - horse-drawn, regular route, schedule, and fare system
1740	Jacques de Vaucanson demonstrates his clockwork powered carriage
1783	First practical steamboat demonstrated by Marquis Claude Francois de Jouffroy d'Abbas - a paddle wheel steamboat
1783	The Montgolfier brothers invent the first hot air balloons
1787	Steamboat invented
1769	First self-propelled road vehicle invented by Nicolas Joseph Cugnot
1790	Modern bicycles invented
1801	Richard Trevithick invented the first steam powered locomotive (designed for roads)
1807	Isaac de Rivas makes a hydrogen gas powered vehicle - first with internal combustion power - however, very unsuccessful design
1807	First steamboat with regular passenger service - inventor Robert Fulton's Clermont

1814	George Stephenson invents the first practical steam powered railroad locomotive
1862	Jean Lenoir makes a gasoline engine automobile
1867	First motorcycle invented
1868	George Westinghouse invents the compressed air locomotive brake - enabled trains to be stopped with fail-safe accuracy
1871	First cable car invented
1885	Karl Benz builds the world's first practical automobile to be powered by an internal combustion engine
1899	Ferdinand von Zeppelin invents the first successful dirigible - the Zeppelin
1903	The Wright Brothers invent and fly the first engined airplane
1907	Very first helicopter - unsuccessful design
1908	Henry Ford improves the assembly line for automobile manufacturing
1908	Hydrofoil boats co-invented by Alexander Graham Bell & Casey Baldwin - boats that skimmed water
1926	First liquid propelled rocket launched
1940	Modern helicopters invented
1947	First supersonic jet flight
1956	Hovercraft invented
1964	Bullet train transportation invented
1969	First manned mission (Apollo) to the Moon
1970	First jumbo jet
1981	Space shuttle launched

EXPANSION TOPICS: History of Transportation - Inventions

<ul style="list-style-type: none"> • Airplane • Air Ships • Bicycles • Cars • Helicopters • Drone 	<ul style="list-style-type: none"> • Hovercraft • Jets • Motorcycles • Railroads • Rockets 	<ul style="list-style-type: none"> • Tramways and streetcars • Steamboats • Submarines • Wheeled Carts • Wheelbarrows
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EXPANSION TOPICS: History of Transportation - Related Timelines

- [Early History of Flight](#)
 - [Timeline of Early Airplane Engine Leading to the Jet Engine](#)
 - [Timeline of Rockets](#)
 - [Timeline of the Internal Combustion Engine - The Heart of the Automobile](#)
 - [Timeline of Submarines](#)
 - [Timeline of The Race for Space \(detailed timeline\)](#)
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