

Unit: Foundations of Multimedia	Concept: Communication Systems
<p>Standard</p> <ul style="list-style-type: none"> 3.5.9-12.HH Analyze how the Industrial Revolution resulted in the development of mass production, sophisticated transportation and communication systems, advanced construction practices, and improved education and leisure time. 	
<p>Key Learning</p> <ul style="list-style-type: none"> (LTTG) Students will be able to engage as technological and engineering literate members of a global society. 	<p>Unit Essential Question</p> <ul style="list-style-type: none"> How can I engage as a technological and engineering literate member of a global society?
<p>Essential Question</p> <ul style="list-style-type: none"> How do technological advancements define different historical eras? 	
<p>Key Vocabulary</p> <ul style="list-style-type: none"> Development, Industrial Revolution, Mass Production, Transportation, Communication System, Construction, Education, Leisure, Efficiency, and Access 	
<p>Learning Experience</p> <ul style="list-style-type: none"> Students who demonstrate understanding can analyze how the Industrial Revolution resulted in the development of mass production, sophisticated transportation and communication systems, advanced construction practices, and improved education and leisure time. Clarifying Statement: Major developments of this period included the continuous-process flour mill, power loom and pattern-weaving loom, steam engine, electric motor, gasoline and diesel engines, vulcanized rubber, airplane, telegraph, telephone, radio, and television. The concepts of Eli Whitney’s interchangeable parts and Henry Ford’s movable conveyor added to advances in the production of goods. Extended free time was possible for some people as a result of increased efficiency and updated labor laws, and eventually led to more widespread access to education. 	
<p>(Big Idea) Technology & Engineering Curriculum Framework Big Ideas</p> <ul style="list-style-type: none"> Historical eras are often defined by technological advancements. 	
<p>(SEP) Science and Engineering Practices</p> <ul style="list-style-type: none"> Obtaining, Evaluating, and Communicating Information - Compare, integrate and evaluate sources of information presented in different media or formats (e.g., visually, quantitatively) as well as in words in order to address a scientific question or solve a problem. 	
<p>(DCI) Disciplinary Core Ideas</p> <ul style="list-style-type: none"> NAEP T.12.2 - Changes caused by the introduction and use of a new technology can range from gradual to rapid and from subtle to obvious, and can change over time. These changes may vary from society to society as a result of differences in a society’s economy, politics, and culture. 	

(TEP) Technology and Engineering Practices

- Systems Thinking - Designs and troubleshoots technological systems in ways that consider the multiple components of the system.

Terms

- (ETS) Engineering, Technology, and Applications of Science – Standards applicable across the Science, Environmental Literacy & Sustainability, and Technology & Engineering content areas.
- (LTTG) PDE Technology & Engineering Long Term Transfer Goals
- (Learning Experience) A learning experience refers to any interaction, activity, or other experience in which students acquire new understanding, knowledge, behaviors, or skills.
- (Big Idea #) PDE Technology & Engineering Curriculum Framework Big Ideas
- (SEP) PDE Science and Engineering Practices
- (DCI) PDE Disciplinary Core Ideas
- (TEP) PDE Technology and Engineering Practices