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| **LESSON OVERVIEW**  Toolkit Topic: Industrial Revolution  Lesson Title: Technological advances (Technology)  Subject/Grade Level: Social Studies/5th Grade  Lesson Duration: One hour long class period | |
| **ESSENTIAL QUESTIONS**  Essential Question(s) for Toolkit: Would your life be better or worse if the Industrial Revolution never happened? Why or why not? Keep the way of living, environmental effects, and laws put in place in mind.  Essential Question(s) for Lesson: How did the technological advances that happened during the Industrial Revolution change our world today? | |
| **OBJECTIVES**   * Students will be able to analyze an article in order to answer questions given. * Students will describe what they learned in their article by using an Infographic to demonstrate their knowledge. * Students will interpret how life today would be different because of the invention of the telephone, the gramophone, the assembly line, the textile industry, and steel. | **STANDARDS**   * Wisconsin History Standard: B.8.7 * Wisconsin History Standard: B.8.8 |
| **ASSESSMENTS**   * Worksheet given to each group will assess their ability to analyze an article written about a topic of their certain invention. * The Infographic will assess their ability to apply their knowledge to a graphic that is readable. * The note-taking sheet will hold students accountable for learning about their classmates’ infographic. * The exit-slip will assess their knowledge of the impact these inventions had on our country. | |
| **DIFFERENTIATION**  In a classroom of diverse learners, the students can be given specific roles in their groups. | |
| **LESSON CONTENT OUTLINE** | |
| |  |  | | --- | --- | | **Lesson Opening** | I will start the lesson by having the students define the word invention and give an example of an invention. After the students discuss with their partners, I will ask for a definition, write it on the board, and create a list of their examples. I will go through each example and state how those inventions affected the world around us. After doing a couple myself, I will ask the students how they think some of the inventions affected our world. [10 minutes] | | **Learning Activities** | 1) The class will be split up into five groups. Each group will be given the task of making an inforgraphic about their invention. I will give each group a different note taking worksheet (pages 3-7) to brainstorm what they are going to include in their infographic. Before the students start their work, I will model how to make an infographic with the invention of the light bulb. Students will make their infographic on the following website: <https://piktochart.com/> [5 minutes]   * Group one: Telephone * This article will be printed out for each student in the group. <http://www.encyclopedia.com/topic/Telephones.aspx> * Group two: Gramophone * This article will be printed out for each student in the group. <http://inventors.about.com/od/gstartinventions/a/gramophone.htm> * Group three: The assembly line of the automobile * This article will be printed out for each student in the group. <http://www.history.com/topics/henry-ford/print> * Group four: Textile Industry * This article will be printed out for each student in the group. * <http://inventors.about.com/od/indrevolution/a/history_textile.htm> * Group five: Steel * This article will be printed out for each student in the group. * <http://blogs.loc.gov/inside_adams/2012/12/andrew-carnegie-man-of-steel/>   [30 minutes]  2) Each group will present their Infographic to the class. As the other groups are presenting each student will fill out a note-taking sheet (page 8) to fill out the main ideas. [10 minutes] | | **Lesson Closing** | I will have the students create an exit slip that answers the question; “If the invention you learned about were to never happen, how would our country be different?”[5 minutes] | | |
| **MATERIALS/RESOURCES/TECHNOLOGY**  Each group will need a chrome book or tablet to make their Infographic. It could also be done in a computer lab. | |

Group One: The Telephone

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| Information to be included in the Infographic | Notes |
| Who created the telephone? |  |
| When did he create it? |  |
| What was the original design of the telephone? |  |
| What are the different parts or the telephone? |  |
| How were telephones assembled? |  |
| How have telephones improved? |  |

Group Two: The Gramophone

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| Information to be included in the Infographic | Notes |
| Who developed the idea of the gramophone? |  |
| When did he create it? |  |
| How was the gramophone different than then Edison’s Alexander Graham Bell’s graphophone? |  |
| How did Berliner promote his gramophone? |  |
| How were gramophones powered? |  |
| How did Berliner contribute to the telephone? |  |

Group Three: The assembly line of the automobile

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| Information to be included in the Infographic | Notes |
| Who created the assembly line? |  |
| When did he create it? |  |
| What is an assembly line? |  |
| How did Ford use the assembly line to create the Model T? |  |
| Why was the assembly line successful? (cost, time, etc.) |  |
| How was the production of cars different before Model T? |  |

Group Four: Textile Industry

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| Information to be included in the Infographic | Notes |
| What is produced in the textile industry? |  |
| What are the major steps in the manufacture of textiles? |  |
| Who contributed the Textile Revolution? |  |
| What did they contribute to the revolution? |  |
| Why is a more efficient power loom and a spinning apparatus necessary in the mass manufacture of clothes? |  |

Group Five: Steel

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| Information to be included in the Infographic | Notes |
| Who was the man of steel? |  |
| What happened by 1889? |  |
| What was steel used for? |  |
| What did Carnegie do to make steel more cheap and efficient? |  |

Note-Taking Sheet

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| Group | Main Ideas |
| Telephone |  |
| Gramophone |  |
| The Assembly Line |  |
| The Textile Industry |  |
| Steel |  |

References

*Andrew Carnegie – Man of Steel*. (n.d.). Retrieved from http://blogs.loc.gov/inside\_adams/2012/12/andrew-carnegie-man-of-steel/

*Emile Berliner - The History of the Gramophone*. (n.d.). Retrieved from http://inventors.about.com/od/gstartinventions/a/gramophone.htm

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