

CARDINAL TECHNOLOGY

JONESBORO HIGH SCHOOL • 7728 MT. ZION BLVD. • JONESBORO, GEORGIA 30236

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Kent Pate

Engineering and Technology
Teacher



**UNIT
BRIEF:**
History of
Technology, Start
Date:

01/23/2017:

- Describe the history and development of engineering.
- Describe the social, economic, and environmental impacts of a technological process, product or system.

OBJECTIVES

- List the major periods in Engineering History and give an example of one item that was produced during that period.
- Give an example of how technology impacted social, economic or environmental from each period and explain how it made an impact.
- Research an example of a design problem and list the challenges, both from an engineering viewpoint as well as political and social standpoint that the engineer faced.
- Record in your journal 3 individuals that had an impact on our world due to their contributions in engineering. Support your reasoning with examples of how their contribution made the impact.
- Working to deadlines
- Networking
- Researching to solve problems
- Following directions

UNIT PROCESS/PROCEDURES

1. Students will bring to class each a day a Design Journal/notebook
2. Students will record what the learning target for each day was as well as keep a record of their daily activities in class.
3. Students will begin each entry as follows (there will be two Design Journal Checks):
 - a. Day of week, calendar date, period, student name
 - b. Example: Tuesday, January 23rd, 2017, 5th period, Fred Smith
4. Students will complete a pretest and Posttest of the unit.
5. Students will draw a timeline in their Design Journal, using the notes given in class lecture.
6. Students will write a short essay on a person that has impacted society through engineering.
7. Students will complete a worksheet on ethical behavior for engineers.

LENGTH OF INSTRUCTION PERIOD

2-Weeks History of Technology

TOOLS/EQUIPMENT/PARTS/MATERIALS

- Design Journal
- Pencils
- Computer
- Internet
- Folder

DELIVERABLES AND ASSESSMENTS

- 2 Pretest/Post Test
- Presentation
- Essay

- Worksheet
- Design Journal
 - Title Page
 - Table of Contents
 - Pages numbered, dated and signed
 - Daily description of work completed and any notes that may be given.

Monday	Tuesday	Wednesday	Thursday	Friday
Jan. 23 <ul style="list-style-type: none"> • Pretest • Learning Target: What are the major divisions of Engineering History? • Worksheet: http://jhstechnology.weebly.com/uploads/5/7/6/5/57654325/major_divisions_of_history.pdf 	24 <ul style="list-style-type: none"> • Learning Target: How has technology impacted social, economic or environmental from each period? • Worksheet: http://jhstechnology.weebly.com/uploads/5/7/6/5/57654325/assignment_impact_of_technology.pdf 	25 <ul style="list-style-type: none"> • Learning Target: How Technology can Effect today's worker • Worksheet: http://jhstechnology.weebly.com/uploads/5/7/6/5/57654325/history_of_technology_article_assignment.pdf 	26 <ul style="list-style-type: none"> • Learning Target: How have engineers overcome challenges in their day to a pressing design problem? • Assignment: http://jhstechnology.weebly.com/assignment-duomo.html 	27 <ul style="list-style-type: none"> • Post Test • Journal Check (Friday)
30 Learning Target: People that had an impact on our world due to their contributions in engineering <ul style="list-style-type: none"> • Assignment: http://jhstechnology.weebly.com/uploads/5/7/6/5/57654325/research_paper_assignment_the_romans-henry_ford.pdf 	31 Learning Target: Technological Turning Points and Their Impact <ul style="list-style-type: none"> • Assignment: http://jhstechnology.weebly.com/uploads/5/7/6/5/57654325/technological_turningpoints_and_their_impact.pdf 	Feb. 1 Learning Target: How is twitter impacting our society at this time? <ul style="list-style-type: none"> • Assignment: 	2 Learning Target: What is NAFTA and is it good or bad? <ul style="list-style-type: none"> • Assignment: 	3 <ul style="list-style-type: none"> • Post Test • Journal Check •

GRADING

	100pts	70pts	50pts
Design Journal	Followed specified format Had entries for each day of week Neat and organized	Did not follow specified format Entries Missing Not Neat and/or unorganized	Notebook and no entries
Quizzes	All questions correct		Late
Posttest	All questions correct		Late
Soft Skills	Not Tardy or any rules infractions		Written up in class

STATE DOE STANDARDS

STEM-EA-10

Understand engineering impacts of social, economic, design and environmental issues.

STEM-EA-11

Explain the impact of business and marketing on engineering design