



Inventions

About the plan

| | |
|-----------------------------|--|
| EDUCATOR'S NAME | Janet Doty |
| SCHOOL | Bankston Elementary |
| DISTRICT | Greenwood Public |
| GRADE LEVELS | 5-6 |
| SUBJECT | Gifted |
| UNIT/THEME | Inventors and Inventions |
| OBJECTIVES | To encourage students to become interested in creating an invention by becoming familiar with various inventors. |
| INSTRUCTIONAL FORMAT | Students are given a list of inventors and a list of questions to answer about their chosen inventor. Students are then asked to create an invention of their own and to present to the class. Another option is to let students pick their own card in a hat and randomly select an inventor's name to research. Students will need to write, prepare statistics of their invention, prove how their invention works, create a poster about their inventor summarizing their work, construct an invention, use prior knowledge, have students present in a formal question/answer forum, and do an experiment with their own invention. |
| PRIOR PREPARATION | Teachers may either ask students questions about their chosen inventor or give each student the name of the inventor and one clue about what he/she invented, without disclosing the actual invention to the student. Information about each inventor can be found at the MAGNOLIA web-site. Thompson and Gale Group also has an article on "How to Write a Term Paper." Proteacher has information about "inventors" and "inventions," with a timeline of popular inventions. |
| MATERIALS NEEDED | <ul style="list-style-type: none">• MAGNOLIA for research• Computer paper• Information sheets• Construction Paper• Blank writing journals• Note cards for speaking points• Poster paper |

| | |
|-----------------------------|--|
| | <ul style="list-style-type: none"> • Colored markers, colored pencils • Rulers • Scissors • Glue |
| DURATION OF ACTIVITY | 5-7 days |
| FORMAL ASSESSMENT | Cooperative skills reflection; group booklet produced containing recordings of the invention "experiments." |

Activity

Students use MAGNOLIA to find information about their inventor in order to answer questions and to write a 1-2 page report, double-spaced, 12-point font. Students are encouraged to begin their searches with Middle Search Plus. Each report should address factual, biographical information. An accurate "Works Cited" page should be listed in the back, making sure to include the used online resources. Students are to present their inventor by stating the name, factual, and biographical information of their inventor, as well as discussing the importance of this invention and how it has impacted today's society. A poster will be part of the presentation. Students are also responsible for creating their own invention and presenting it to the class. In their log-book journals, students will begin each day writing what they are doing to create their invention, why they are doing it, why it is important, how they can use their invention, why they chose to create it, what they need to do next, and will draw statistical information in the form of diagrams, charts, etc. to help explain their invention. Through a student self-assessment, students will explain to the class what they invented, why they created it, and give step-by-step instructions on how they created their invention. Each student will be logged onto MAGNOLIA. They will go to "SIRS Discoverer" and click onto "Kids Corner." Once there, students will click onto "Things to Make and Do: Social Issues Projects

Explore activity

Students can create a poster by advertising their invention. The poster will include an advertising slogan, a drawing of their invention, a description of the product, and the cost to market the product.

It will take one week to prepare the poster and present it to the class. Students will need to attach a materials list with the names of the tools and materials that were used to complete the project. Poster paper, markers, colored pencils and writing paper are the needed materials. Poster directions should

include: thinking of an advertising slogan or name for the poster; naming the invention to describe the invention; using block letters and writing neatly for the title; marketing the invention by drawing the invention and how much it is worth; presenting the poster to the class and having students pose questions about the poster.

Famous inventors

Listed below are names of famous inventors:

| | | |
|------------------------|-------------------------|--------------------------|
| Leonardo de Vinci | Ben Franklin | Lazlo Biro |
| James Watt | Peter Henlein | Henry Ford |
| Thomas Newcomer | Johannes Gutenberg | Carl Benz |
| Joseph Marie Jacquard | Conrad Gesner | Bill Gates |
| Oliver Evans | Galileo Galilei | Guglielmo Marconi |
| Alfred North Whitehead | Edward Johnson | Hubert Booth |
| Thomas A. Edison | Antonie van Leeuwenhoek | Dr. Alexander Fleming |
| Alexander Graham Bell | Alessandro Volta | Wright Brothers |
| Alfred Nobel | Dr. Edward Jenner | Leo Baekeland |
| Chester Floyd | Richard Trevithick | Dr. Frederick Banting |
| The Stevens family | Issac Singer | Philo Farnsworth |
| Robert Fulton | James Stanley | Bette Nesmith Graham |
| Henri Coanda | Peter Durand | Joseph-Armand Bombardier |
| Sir Joseph Whitworth | Ezra Warner | Arthur Fry |
| Michael Idvorsky Pupin | Alexander Bain | Harris Tweed |
| Sir Joseph Wilson Swan | Edwin Budding | Sigmund Freud |
| Elias Howe | Thomas Edison | Vivienne Westwood |
| George Westinghouse | Whitcomb Judson | Elijah McCoy |
| Earnest Hamwi | Christopher Sholes | George Washington Carver |
| Nicholas Louis Robert | Conrad Hilton | Johannes Gutenberg |
| Benjamin Bannecker | Elizabeth Lee Hazen | Rachel Fuller Brown |
| William Coolidge | Walt Disney | Gertrude Belle Elion |
| Helen Murray Free | Louis Pasteur | Patsy Sherman |
| Eli Whitney | Mathias Baldwin | Cyrus McCormick |