

EGYPT'S GOLDEN EMPIRE

Name: _____

Date: _____

Science and Technology Project Guide

The ancient Egyptians are credited with the invention of many different things from communications systems to cosmetics. Use the Egypt's Golden Empire Web site [<http://www.pbs.org/empires/egypt/index.html>] along with other primary sources and Internet sites (including the ones below) to research your assigned topic.

While researching, you will need to gather the following information:

- Who invented/discovered it?
- Approximately when did this invention/discovery happen?
- Where did this discovery/invention happen?
- Why was this such an important discovery/invention?
- What impact did this discovery/invention have on the everyday lives of ancient Egyptians?
- How did this discovery/invention work (the science of it)? Or, how was this item made (the process of creating it)?
- Other: list any interesting stories, examples, or information that you think is important about your topic

The About.com Web site has an Ancient History page [http://ancienthistory.about.com/gi/dynamic/offsite.htm?zi=1/XJ&sdn=ancienthistory&zu=http://web.clas.ufl.edu/users/rhatch/HIS-SCI-STUDY-GUIDE/0011_egyptianContrib2Astron.html], which discusses the creation of a 24-hour day and a constant calendar of 365 days.

About.com also has a section on Egyptian Math [<http://ancienthistory.about.com/gi/dynamic/offsite.htm?zi=1/XJ&sdn=ancienthistory&zu=http://www.eyelid.co.uk/numbers.htm>], which has information and drawings about the Egyptian number system.

The Minnesota State University Web site has a section on Ancient Egyptian Medicine [<http://www.mnsu.edu/emuseum/prehistory/egypt/dailylife/medicine2.htm>], which provides information about the types of medicine practiced in ancient Egypt. There is also a list of remedies used to treat specific conditions.

There is also a section on Egyptian Astronomy [<http://www.mnsu.edu/emuseum/prehistory/egypt/dailylife/astronomy.html>], which looks at the creation of calendars and the study of time. Information about the pyramids is also included.

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The Canadian Broadcasting Corporation (CBC) News Web site has a report which explores the discovery of a glass-making site in ancient Egypt [<http://www.cbc.ca/story/science/national/2005/06/17/glass-Egypt050617.html>]. It also examines the methods used for producing the glass.

Geocities.com has a section on the Discoveries and Inventions of Ancient Egypt [http://www.geocities.com/wally_mo/inventions.html], which provides a list of scientific and technological contributions made by the ancient Egyptians.

The Museum of Science has a section on its Web site, Ancient Egypt: Science and Technology [<http://www.mos.org/quest>]. This has detailed information about the mummification process used in ancient Egypt.

Eternal Egypt

[http://www.eternalegypt.org/EternalEgyptWebsiteWeb/HomeServlet?ee_website_action_key=action.display.topics&language_id=1] has links and information related to science and technology in all areas including arts and crafts, science, agriculture, commerce and trade, government, and society and culture.

Once your research is completed, you will need to find a way to present what you have learned to your classmates. Choose one of the following ideas or come up with an idea of your own:

- Re-enact the invention/discovery and cover it as a news story by making a video or writing it as a newspaper or news magazine article. Include pictures and captions.
- Create a model of the discovery/invention to show what it would look like and how it would be used.
- Create a poster board sized diagram showing the significant parts of the invention or discovery and explaining its uses.
- Make a poster board sized flow chart using pictures and directions to explain the step-by-step process of making or using the discovery/invention.
- Other: come up with your own original idea for teaching the class about your invention. Be sure to get this approved by your teacher before you begin.

Now that you have researched and created your project, you need to think about how you will teach your classmates about what you have learned. When planning your three to five minute lesson, keep in mind that you want to give them as many facts as possible about the invention and its significance. You also want to discuss or demonstrate how it works or how it was used. It is also important to discuss how the invention impacted the ancient Egyptians as well as how it continues to impact people today.

In the space below, write down the key ideas and information you plan to include in your talk. You may use this sheet as a guide while presenting what you have learned.

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Key Ideas for Presentation:

Your presentation should now be planned. Your final step is to compose three questions and answers that could be used as part of an ancient Egyptian trivia game.

- Use one index card for each question.
- Record the question (multiple choice, true/false, fill in the blank, **no short answer/essay questions**) and the answer on the index card.
- Place a point value on the question: easy = 1, medium = 2, hard = 3. This will be the number of points each team earns if they answer the question correctly.

Turn the questions in to your teacher after you make your presentation to the class.