

# Astronomy Research Project

Your topic goes here

Your name goes here

***NOTE: Each of you will have different numbers of slides for each heading. To add a new slide, press “Ctrl” and “m” at the same time.***

State Standards for Astronomy  
(Highlight in **RED** the standards covered  
by your research.)

- Compare and contrast various planets' characteristics.
- Describe basic star types and identify the sun as a star type.
- Describe and differentiate comets, asteroids, and meteors.
- Identify gravity as the force that keeps planets in orbit around the sun and governs the rest of the movement of the solar system and the universe.

# State Standards for Astronomy

- Illustrate how the positions of the stars and constellations change in relation to the Earth during an evening and from month to month.
- Identify equipment and instruments that explore the universe.
- Identify the accomplishments and contributions provided by selected past and present scientists in the field of astronomy.
- Identify and articulate space program efforts to investigate possibilities of living in space and on other planets.

# State Standards for Astronomy

- Explain essential ideas about the composition and structure of the universe.
- Compare the basic structures of the universe (e.g., galaxy types, nova, black holes, and neutron stars).
- Describe the structure and life-cycle of stars using the Hertzsprung-Russell diagram.
- Describe the nuclear processes involved in energy production in a star.

# State Standards for Astronomy

- Explain the “red-shift” and Hubble’s use of it to determine stellar distance and movement.
- Compare absolute versus apparent star magnitude and their relation to stellar distance.
- Explain the impact of the Copernican and Newtonian thinking on our view of the universe.
- Identify and analyze the findings of several space instruments in regard to the extent and composition of the solar system and universe.

# What I Already Knew About My Topic

- This slide should be one or two slides long.
- In this section, explain what you already know about your topic BEFORE researching any textbooks or websites.

# Topic Information

- This section will be many slides long. Exact slide number is dependant upon how thorough you are, the size of font you choose, the number of images you use etc. Information on your topic should be mostly text with a picture or two to compliment or further explain the text. Most of your information should come directly from your textbook.

# Interactive Website

- You must find 1 interactive website about your topic. Look for simulations, video, and/or models. Interactive means the user can do something on the site besides read text or view pictures.
- 2 or more interactive sites accessible from your PowerPoint is worthy of extra credit.
- Put these sites directly in your PowerPoint right here by setting up a hyperlink.
- To do this highlight and copy (Ctrl-C) the interactive site web address. Paste it in this slide with “Ctrl-V.” Highlight address with mouse. Right click. Select “hyperlink” and paste (ctrl-V) in the address window.



# Bibliography

- Remember, you need 2 textbook sources. Your textbook should be your first source.
- Websites must be documented correctly.
- Use “easybib.com” to assist you.
- Remember, your bibliography must be

# PowerPoint Project Requirements

- Choose an appropriate background for your PowerPoint. Your background should make your text really stand out. A light colored background with dark text works best.
- Be creative but do **NOT** overdo things like images and sound effects.
- Font must be 32 point or greater. The class should be able to read your text from their seats.

# PowerPoint Project Requirements

- PowerPoint should **ONLY** highlight most important information about your topic. Bullet points.
- All text should be in your own words. If the words are not yours, then the text **MUST** have quotes around it.

# PowerPoint Project Requirements

- When you present, please do NOT read directly off of your PowerPoint.
- Have written notes on index cards when you present your PowerPoint. Practice your presentation. You may use the board for writing important information that the class needs to know.

# PowerPoint Project Requirements

- If you desire to present your research in another format besides PowerPoint you may do so but the format has to be approved by me. You will be graded on the same general scale.
- Extra credit is also awarded if you construct something related to your topic like a model or instrument. Exceptional PowerPoint's and/or presentations are also worthy of extra credit.