

Space Research Project-

In this project you will be responsible to research a topic in astronomy and then create a supporting project. You may work with a partner or by yourself. When creating your project, the criteria for researching is listed next to the topic. Here are the topics to choose from:

Inner planets- Day, year, what are they made of?

Constellations- Magnitude, main stars, pictures, stories behind them.

Space exploration- Why should we? Where have we been?

Telescopes- What kinds are there? What is the significance?

Outer planets- Day, year, what are they made of?

Race to Space 1960's- Historical significance, what happened?

Life beyond Earth- Theoretical investigation.

Blackholes- What are they and why are they so cool to study?

Expanding Universe- What direction is the universe heading? What will happen if it can't expand?

Comets, Asteroids & Meteors- Their path, how are they categorized?

Forming of the Solar System- How did the Universe begin?

Stars, Galaxies & Universes- Shapes, sizes, info. about chemical reactions

Life Cycles of Stars- birth, life, death- all the other parts, too.

Legends of the Cosmos- stories that give a legendary explanation of why.

*Other topics must be approved before you begin research.

___/5 pts. Topic is clearly written/stated on/in project.

___/20 pts. Project expresses researched details from above choice list. Project should have at least ten supporting facts/ information.

___/30 pts for on task behaviors (10 pts each day)

___/10 pts. Include 2 sources (5 pts each)

___/15 pts. Presentation/ Appropriate audience member behavior

___/ 80 total points possible

We will be in using iPads in class to begin the research. This will be the only time in class to work on this project. The remainder is to be done at home. On April 24th or 25th you will be presenting your information.

*You will need this sheet for grading the day of your presentation.

Post Card

Bon voyage! You've just won a complimentary trip within our Solar System! You must create a postcard to send home that describes your adventure about your topic of choice. Have a safe and wonderful trip ☺

1. Begin your postcard by creating a **decorative color image** of your topic of choice on one side of the construction paper. You must also **include your topic title** along with your illustration.
2. On the other side of your "postcard", you must **create a stamp** that relates specifically to your topic (this could just be an illustration of a characteristic).
3. As you write about your topic, you need to include the aspects listed next to your topics on the front of this sheet. **Must contain a minimum of 10 facts/information.**
4. As you are creating message in your postcard be sure to include details you have researched in a creative way. (don't just state the facts!)
5. Either research or ask what the reverse side of your postcard needs to look like and make sure to address your postcard to home ☺
6. Bibliography must include 2 sources.

Rap/Song

Oh yeah, it's time to drop a beat! You've just signed up for karaoke at the hippest club and a chance to win the grand prize of \$100! After choosing your topic of interest, you must create a rap or song that is not only fun and energetic but includes the characteristics of the planet. Happy beatboxing ☺

1. Before you begin writing your rap or song, you may want to look at images of your topic for inspiration.
2. Select the style of music you want to use (i.e. hip hop, rap, country, rock, etc.)
3. As you write about your topic, you need to include the aspects listed next to your topics on the front of this sheet. **Must include 10 facts/information.**
4. You **must be creative** and include all of the aspects above as you write your rap or song on this planet (don't just state the facts!)
5. Must have a minimum of 5 refrains with a minimum of 4 lines for each refrains= minimum of 20 total lines.
6. Bibliography must include 2 sources.

Poster

Congratulations! You've just been chosen as a finalist at the science fair to present a poster about a topic of your choice! After choosing your topic of interest, you must create a poster that includes the required aspects about your topic of choice. Good luck at the fair 😊

1. You must **include a sign which includes your name and topic of choice** your poster is representing.
2. As you write about your topic, you need to include the aspects listed next to your topic on the front of this sheet. **Must include 10 facts/information** about your topic
3. You **must be creative** and include all of the aspects above somewhere on your poster.
4. Your poster must be neat and organize and fill the entire poster paper.
5. Bibliography must include 2 sources.

Digital Presentation

Congratulations! You have made the cut and have been invited to interview for an 8th grade Earth science teaching job. As part of the interview, you will show how well you can communicate information about your topic of choice. You will use your knowledge of technology to create a digital presentation to “wow” the interview team. Good luck!

1. Remember, a good presentation should have many pictures and limited words. When words are used, make sure they are used and explained in a way your audience will understand.
2. As you create your digital presentation, you need to include the aspects listed next to your topic on the front of this sheet. **Must include 10 facts/information** about your topic.
3. You must be creative and include all aspects from above in your digital presentation.
4. Your presentation needs to be at least 3 minutes long.
5. Bibliography must be included in your presentation and be 2 sources.

3D Model

You are working for NASA and you are interested in building machinery that will go into space. To demonstrate your team's idea, you need to build a small model. Once you present your information to your superiors, you have a shot on getting your idea into space!!

- Remember, a good presentation should have many pictures and limited words. When words are used, make sure they are used and explained in a way your audience will understand.
- As you create your digital presentation, you need to include the aspects listed next to your topic on the front of this sheet. **Must include 10 facts/information** about your topic.
- You must be creative and include all aspects from above in your digital presentation.
- Your presentation needs to be at least 3 minutes long.
- Bibliography must be included in your presentation and be 2 sources.