

1Q: Our Big Brother

WebQuest Description: (Criterion C) Are you a critical thinker? Do you ask questions that help you to really understand what is true and what is questionable?

Grade Level: 9-12

Curriculum: Social Studies

Keywords: Critical Thinking, Jupiter, Solar System, Earth's Relationship to Jupiter, Physical Geography, Earth Science

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Introduction

Who is the Big Brother? What role does it play as a "protector?" Is it actually a "protector?"Intro TaskPart 1: Create a FOLDER in your DIGITAL PORTFOLIO on GOOGLE DRIVE and name it BBFolder. (Be sure you put the folder in your 1st Quarter folder)Part 2: Create a DOCUMENT on GOOGLE DRIVE and name it BBrother. Answer the following in the document. (Use complete sentences.)Part 3: Look at the images below and make observations about each one. Look at image 1- then write a small observation about this image...what? where? how? etc.Look at the remaining images and do the same thing. Look at the image, then write your observations about that photo.

Tasks

Did you figure it out? Who is "Our Big Brother?"You got it! JUPITER! Sometimes big brothers act as protectors to their younger siblings, sometimes they don't. There are some big brothers that cause more trouble for their younger siblings.What type of BIG BROTHER is JUPITER?With this WebQuest activity you will find information that will help you to better understand this question, and maybe even answer it.

Part 1: Look at the web page Jupiter Compared to Earth by Jerry Coffeya. What is the difference in the MASS of Jupiter and Earth?b. What is the difference in the VOLUME of Jupiter and Earth?c. What is the difference in the CIRCUMFERENCE of Jupiter and Earth?Go to your BBrother Document and using this information, write a statement comparing Jupiter to Earth.Once you have finished, you will go to Process Page 2.On page 2 you will watch a video clip "Rare Planet: part 3."As you watch this clip, use your BBrother document to take notes about the relationship between the Earth and the planet Jupiter. What theory does the video share about this relationship?Go to page 2 now.

As you watch this clip, use your BBrother document to take notes about the relationship between the Earth and the planet Jupiter. What theory does the video share about this relationship?

Process

Part 2: Use your notes from RARE PLANET: Part 3, and in your BBrother Document create a one sentence STATEMENT about the theory the video shares dealing with the relationship between Jupiter and the Earth. Part 3: Listen to the Podcast linked below. Move the time on the podcast to 25:22 and begin listening. Take notes in your BBrother Document over what scientist are now saying about the relationship between Earth and Jupiter.Stop when you get to the time 27:26 on the podcast. When you finish listening, use your notes and in your BBrother Document create a one or two sentence STATEMENT about the ideas the Podast shares about the relationship between Jupiter and the Earth.Part 4: In your BBrother Document, compare your two statements. What do you notice? Are there problems? What are they? Why do you think these two statements might be different? What circumstances might cause this difference?Write a statement that compares the two statements, and your explanation of any differences that might exist between the two sources.Part 5: Do you think Jupiter helps protect planet Earth? Explain your answer in a brief statement.Part 6: Be ready to share your ideas with the class.

For your FINAL PRODUCT, create a SECOND document on GOOGLE DOCS and name it BBROTHERFINALYour final product will be the following:1. A statement comparing Jupiter to Earth.2. A one sentence STATEMENT about the theory the Rare

Earth Part 3 video shares about the relationship between Jupiter and the Earth. 3. A one or two sentence STATEMENT about the ideas the Podast shares about the relationship between Jupiter and the Earth. 4. A statement that compares the two statements, and your explanation of any differences that might exist between the two sources. 5. A statement explaining why you do or do not think Jupiter helps protect planet Earth.

Log in to KID BLOG and create a blog entry today, REFLECTING on what you learned. Keep the following in mind: What new things did you learn today? How did new knowledge create better understanding? What else do you want to know about this topic? What was difficult about today's work? What did you enjoy the most about today's work?

Evaluation

Although we will not have a FORMAL evaluation of this activity, please keep in mind Criterion C: Thinking Critically. Criterion C: Thinking critically. Maximum: 8 You should be able to: analyze concepts, events, issues, models and/or arguments; analyze and evaluate a range of sources in terms of origin and purpose, recognizing values and limitations; recognize different perspectives and their implications; make connections between information to make valid, well-supported arguments.

Category and Score	1-2	3-4	5-6	7-8	Score
You Should...	<ul style="list-style-type: none"> make a limited attempt to use some relevant terminology demonstrate basic knowledge and understanding of content and concepts through some descriptions and/or examples. 	<ul style="list-style-type: none"> use some humanities terminology appropriately demonstrate knowledge and understanding of content and concepts through simple descriptions, explanations and examples. 	<ul style="list-style-type: none"> use relevant humanities terminology accurately demonstrate good knowledge and understanding of content and concepts through descriptions, explanations and examples. 	<ul style="list-style-type: none"> use a range of humanities terminology accurately and appropriately demonstrate detailed knowledge and understanding of content and concepts through thorough descriptions, explanations and examples 	1-8
				Total Score	

Conclusion

Remember that when you study any topic or idea in any of your classes, that you are a CRITICAL THINKER. Always ask questions: "How do we know that?" "Why is this true?" "Where's the evidence?" Also, here's one last resource on this topic: How Jupiter Might Save Earth.

Teacher Page

Mr. Beavers has worked at JT Moore Middle School through 2013. He joined the faculty of Hillsboro Comprehensive High School in the Fall of 2013 as a member of the Freshman Academy. Mr. Beavers is originally from Florence, Alabama where his family now lives, but grew up in Columbia, Tennessee graduating from Columbia Academy. He has lived in Nashville since 1986.

Standards

Credits

Other