

Phases of the Moon

WebQuest Description: This webquest provides activities to help students understand the phases of the moon.

Georgia Performance Standard:

S2E2. Students will investigate the position of sun and moon to show patterns throughout the year.

d. Use observations and charts to record the shape of the moon for a period of time.

Grade Level: K-2

Curriculum: Science

Keywords: moon, phases, changes, night sky

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WebQuest URL: <http://zunal.com/webquest.php?w=138346>

Introduction

Put on your space suits, because we are going to explore the phases of the moon! Why does the moon look different on from night to night? Is it really changing? Why is it so bright? These are just a few of the questions that you will explore throughout this WebQuest. So put your space helmet on and get ready to discover all you want to know about the moon!

Tasks

You will research the names and cause of the phases of the moon. You will learn what the different phases are and why they occur throughout each month. You will use what you learn to complete different activities that will demonstrate your understanding of the concepts explored throughout the WebQuest.

Process

1. Before the students get started the teacher will

read An Inuit Legend that was used in the Inuit culture to explain the changes in the moon.

<http://gtm-media.discoveryeducation.com/videos/dsc/data/b1db9231-baee-4f39-8979-93ca9593c907.pdf>

You will need a discoveryed.com login to use the link above.

2. The students should write a reflection in

response to the following prompt. You have just heard an Inuit Legend about why the moon appears to change from night to night. Think about what you have learned about how the Earth revolves around the sun. You should also think about how the moon appears to look in the sky from night to night. Write a short reflection in response to the legend. Do you think the shape of the moon changes throughout the month? Why or why not?

3. In groups of three or four begin a KWL chart.

Add facts about what you know about the phases of the moon in the "K" column. Then add questions that you have or things that you would like to know about the phases of the moon to the "W" column. You will add what you learn to the "L" column throughout the rest of the WebQuest.

4. Complete the Discovery Education's Phases of the

Moon Exploration. Be sure to use the student exploration guide as you complete the exploration.

<http://player.discoveryeducation.com/index.cfm?guidAssetId=dac072ad-6fd9-4e87-8f80-56096d9e25cd&blnPopup=1>

5. Watch NASA's Phases of the Moon video. Make sure to note anything you learn on your KWL chart.

http://www.nasa.gov/multimedia/videogallery/index.html?media_id=80227191

6. Complete the Oreo Moon Phases Activity. Use the following link if you need more information.<http://science-es.discoveryeducation.com/> (Click on the "Moon, Earth, and Sun" tab. Then click on the "Moon" tab. You will see a list of reading passages, video clips, and ebooks listed)

7. Think about everything you have learned about the phases of the moon. Write a response to the following prompt. Imagine that you moved to the other side of the Earth. Would you see the same phases of the Earth that your friends would see in Georgia? Why or why not? Use the facts that you have learned throughout this WebQuest to support your thoughts.

8. Place all of your learning activities into your Science WebQuest folder and submit to the teacher.

Evaluation

You will be assessed on all portions of this WebQuest. You will include all activities in your Phases of the Moon WebQuest folder. Please use the rubric below to rate your own work before you submit your work to the teacher. Make sure that your work is satisfactory.

Category and Score	Still in Training (We Have A Lot Of Work To Do)	Jr, Astronaut (You're Getting There)	Astronaut (Good)	Sr. Astronaut (Great)	Score
KWL Chart and Exploration Activity	KWL Chart and Exploration Activity are incomplete.	KWL Chart and Exploration Activity have been completed with short phrases or undetailed answers.	KWL Chart and Exploration Activity are answered with complete sentences.	KWL Chart and Exploration Activity are answered with well thought out answers that reflect an understanding of the concepts being taught.	25
Oreo Activity	Correctly modeled and labeled three or less different phases of the moon.	Correctly modeled and labeled four or five different phases of the moon.	Correctly modeled and labeled six or seven different phases of the moon.	Correctly modeled and labeled eight different phases of the moon.	10
Final Writing Prompt Mechanics	Does not write in complete sentences. Does not use correct spelling, grammar, and punctuation most of the time.	Writes in complete sentences. Uses correct spelling, grammar, and punctuation without more than six errors.	Writes in complete sentences. Uses correct spelling, grammar, and punctuation without more than four errors.	Writes in complete sentences. Uses correct, spelling, grammar, and punctuation without more than two errors.	15
Final Writing Prompt Ideas and Concepts	Uses no more than three facts to demonstrate an understanding of the phases of the moon.	Uses at least four facts to demonstrate an understanding of the phases of the moon.	Uses at least six facts to demonstrate an understanding of the phases of the moon.	Uses at least eight facts to demonstrate an understanding of the phases of the moon.	50
				Total Score	100

Conclusion

You have now discovered everything you need to know about the phases of the moon through your research. You now understand the true reason that the moon's appearance changes throughout the month.

Teacher Page

This WebQuest should help students understand the phases of the moon and to clarify any of their misconceptions. The students should have learned a few basic concepts before participating in this WebQuest activity. They should understand the following concepts: the Earth revolves around the sun, the sun does not move, and the Earth constantly rotates on an imaginary axis as it revolves around the sun.

Grade: 2 Georgia Performance Standard: S2E2. Students will investigate the position of sun and moon to show patterns throughout the year.d. Use observations and charts to record the shape of the moon for a period of time.

Standards

Credits

Other