

Where Do Stars Go?

Five friends were wondering where stars were in the daytime. They each had different ideas about why we do not see stars in the sky during the day. This is what they said:

Jack: "The stars stop shining when the Sun comes out."

Shelley: "The stars are still in the sky above us, but we can't see them."

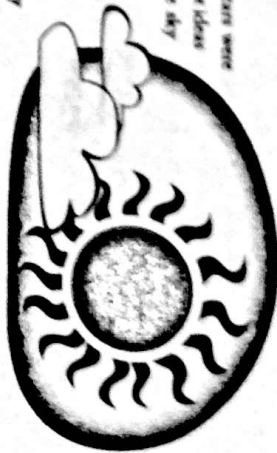
Marcy: "The stars go underneath Earth during the daytime."

Emma: "The stars cool down during the day and the Sun gets hotter."

Flavor: "The stars are on the other side of Earth where it's nighttime."

Which friend do you most agree with? _____

Describe your thinking about why you do not see stars during the daytime. Provide an explanation for your answer.



Summer Talk

Six friends were talking. They each had different ideas about why it is warmer in the summer than in the winter. This is what they said:

Warner: "It's because the winter clouds block heat from the Sun."

Avi: "It's because the Sun gives off more heat in the summer than in winter."

Paul: "It's because Earth's tilt changes the angle of sunlight hitting Earth."

Fernando: "It's because the Earth orbits closer to the Sun in the summer than in the winter."

Shakira: "It's because one side of Earth faces the Sun and the other side faces away."

Susan: "It's because the Northern Hemisphere is closer to the Sun in summer than in the winter."

Which friend do you most agree with? _____

Describe your thinking about why it is warmer in the summer than in the winter. Provide an explanation for your answer.

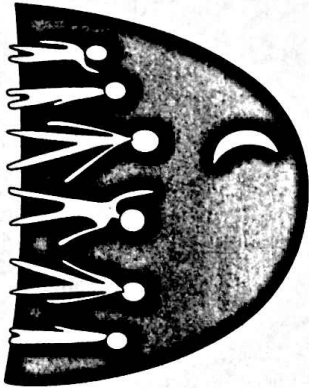




Darkness at Night

Six friends were wondering why the sky is dark at night. This is what they said:

- Job: "The clouds come in at night and cover the Sun."
- Talia: "The Earth spins completely around once a day."
- Nick: "The Sun moves around the Earth once a day."
- Becca: "The Earth moves around the Sun once a day."
- Laitsha: "The Sun moves underneath the Earth at night."
- Yolanda: "The Sun stops shining."



Which friend do you think has the best reason for why the sky is dark at night? Describe your ideas about why the Earth is dark at night and light during the day.



Emmy's Moon and Stars

Emmy looked out her window and saw the Moon and stars. She wondered how far away they were. Circle the answer that best describes where you think the Moon and stars are that Emmy sees.

- A There are no stars between the Earth and the Moon.
- B One star is between the Earth and the Moon.
- C A few stars are between the Earth and the Moon.
- D There are many stars between the Earth and the Moon.
- E Several stars are between the Moon and the edge of our solar system.



Explain your thinking
