

Name _____

Unveiling the Mysteries of Our Moon's Surface

Open-Ended Response Questions

1. Scientists believe that studying the Moon's surface can provide insights into the early history of our solar system. Explain how the Moon's composition and geological features support this idea.
2. Regolith on the Moon contains tiny glass beads created by intense heat from meteorite impacts. Discuss the significance of these glass beads for lunar research and the potential challenges they pose for future lunar missions.
3. What role does the Moon's lack of atmosphere play in the preservation of impact craters on its surface, and how does this compare to Earth's surface?
4. In recent years, there has been renewed interest in lunar exploration and the possibility of establishing a sustainable human presence on the Moon. How might knowledge of the Moon's surface composition be essential for planning and executing such missions?

