

Name _____

The Moon's Magical Influence: How it Affects Earth's Tides

Open-Ended Response Questions

1. Imagine you are a marine biologist studying intertidal zones. How would you design an experiment to investigate the relationship between tidal patterns and the distribution of marine species?
2. Discuss the potential challenges and benefits of harnessing tidal energy as a renewable energy source. What regions of the world might be most suitable for tidal energy projects, and why?
3. Tides are not limited to Earth; other celestial bodies in the solar system, such as Europa (a moon of Jupiter), also experience tidal forces. How might the study of tides on these celestial bodies contribute to our understanding of their geology and potential habitability?
4. Tides have inspired myths, legends, and cultural practices throughout history. Share an interesting tidal myth or cultural tradition from a specific region or civilization and explain its significance.

