

Reading Comprehension Questions (Cycles - Human Impact & Phenomenon Groups)

Read the following article about energy and matter cycles from [NASA](#) and answer the questions below to check your comprehension.

- 1. Explain how energy from the Sun drives processes in the Earth System.**
- 2. Describe the role of wind patterns and ocean currents in redistributing energy throughout the environment.**
- 3. What is the water cycle? Explain the different processes involved in the movement of water through the Earth System.**
- 4. How does water vapour in the atmosphere influence Earth's weather and climate?**
- 5. Discuss the importance of freshwater on Earth and its distribution among different reservoirs.**
- 6. Explain the process of nitrogen fixation and its significance in the nitrogen cycle.**
- 7. Describe the different processes involved in the nitrogen cycle and how they contribute to the movement of nitrogen through the Earth System.**
- 8. How do human activities impact the global nitrogen cycle? Provide examples.**
- 9. Explain the role of carbon in the Earth System and its movement through the slow and fast carbon cycles.**
- 10. Discuss the relationship between the carbon cycle and ecosystems. How does climate change impact the carbon cycle and ecosystems?**

