

Module 2 DBA Questions

1. What is the water cycle and how does the conservation of matter apply to the water cycle? In your own words, discuss two possible human impacts on the water cycle.

The water cycle is a continuous process of water moving throughout the planet and the atmosphere and changing forms. As factors such as temperature change in the atmosphere and in the water, it forces the water to move and change form. It has many processes within it, such as precipitation (the falling of water from clouds onto Earth as snow or rain), and evaporation (the process by which water heats up into water vapor and rises into the atmosphere. In the water cycle the conservation of matter applies to the water cycle because water cannot be destroyed or created, it simply changes shape. There is the same amount of water on Earth and in the atmosphere that there was 5 million years ago. Even when it changes form, the amount of water stays the same. Two possible human impacts on the water cycle are polluting the water and groundwater reduction. If a company is polluting a river by putting waste and chemicals into it, it will impact the water cycle because that water will become contaminated. If a town decided to build a dam in a river, that dam would cause less groundwater downstream.

2. A puddle of water is found on the sidewalk after an afternoon rainstorm. Trace a drop of water from this puddle through the entire water cycle.

After the drop of water has fallen during precipitation, it will then potentially cause runoff, which is where the water moves around the surface of the earth without really seeping into the ground. Then if it increases in temperature, it will transform into water vapor and evaporate into the atmosphere through a process called evaporation. Once it cools in the atmosphere, it will form a cloud with other water droplets in something called condensation. This process turns the water vapor into a cloud. When the cloud becomes too heavy, the water will fall back to earth in the form of precipitation. The water might move about the surface of the earth again through runoff. It may also seep into the ground through infiltration. There, it will be stored as groundwater. Plant roots may suck the water up into the plant, and then release the water again as water vapor into the atmosphere. This water vapor will have evaporated up into the atmosphere, where it will transform into a cloud once again through condensation, and fall once more as precipitation.

3. Winds in the northern hemisphere appear to be deflected to the right; in the southern hemisphere to the left. What causes this apparent motion?

This motion is caused mainly by the rotation of the earth.

4. In your own words, explain what causes air pressure.

Air pressure is caused by the molecules in the air being pulled towards the earth via gravitational pull. When there are air molecules in the atmosphere, Earth's gravity pulls the molecules towards earth, which causes pressure in the atmosphere. Motion of particles, particles strike the earth, denser the air, higher the pressure

5. What is the difference between weather and climate? Give examples of each.

Weather is the current or day-to-day changes in temperature, dew point, humidity, air pressure, wind, and precipitation. This is more short term. Climate is the average weather conditions in a certain area over a long period of time. So the big difference is the timing. Weather is short-term, climate is long term.

6. Why is the science of meteorology important to the everyday, average citizen? Talk about a time when meteorology impacted your plans for the weekend.

Meteorology can impact day-to-day plans because if you are planning something outdoors and then you learn that there's going to be lightning and thunder, it poses a safety risk and you should cancel. Having meteorology helps predict that and get information to people, so

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1. Understanding the eBook Flvs Earth Space Science Exam Answers
 - The Rise of Digital Reading Flvs Earth Space Science Exam Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Flvs Earth Space Science Exam Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Flvs Earth Space Science Exam Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Flvs Earth Space Science Exam Answers
 - Personalized Recommendations
 - Flvs Earth Space Science Exam Answers User Reviews and Ratings
 - Flvs Earth Space Science Exam Answers and Bestseller Lists

5. Accessing Flvs Earth Space Science Exam Answers Free and Paid eBooks
 - Flvs Earth Space Science Exam Answers Public Domain eBooks
 - Flvs Earth Space Science Exam Answers eBook Subscription Services
 - Flvs Earth Space Science Exam Answers Budget-Friendly Options
6. Navigating Flvs Earth Space Science Exam Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Flvs Earth Space Science Exam Answers Compatibility with Devices
 - Flvs Earth Space Science Exam Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Flvs Earth Space Science Exam Answers
 - Highlighting and Note-Taking Flvs Earth Space Science Exam Answers
 - Interactive Elements Flvs Earth Space Science Exam Answers
8. Staying Engaged with Flvs Earth Space Science Exam Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Flvs Earth Space Science Exam Answers
9. Balancing eBooks and Physical Books Flvs Earth Space Science Exam Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Flvs Earth Space Science Exam Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Flvs Earth Space Science Exam Answers
 - Setting Reading Goals Flvs Earth Space Science Exam Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Flvs Earth Space Science Exam Answers
 - Fact-Checking eBook Content of Flvs Earth Space Science Exam Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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