

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

Flvs Answers For Earth Science

G Orfield



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Flvs Answers For Earth Science Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Flvs Answers For Earth Science**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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