**Bio bw 3-13**

1. **What is the difference between primary and secondary succession?**

**Primary has NO soil, secondary HAS soil**

1. **While divergent evolution shows common ancestry, which type of evolution show similar traits or behaviors without a common ancestor?**
   1. **Coevolution c. adaptive radiation**
   2. **Vestigial d. analogous**

**3-14 3-15**

1. **How much energy gets passed from level to level?**

**10%**

1. **While divergent evolution shows common ancestry for two species, which type of evolution shows common ancestry between several species very quickly?**
   1. **Coevolution c. adaptive radiation**
   2. **Vestigial d. analogous**

**3-16**

1. **Why is the phosphorus cycle different from the carbon, water, and nitrogen cycles**

**Not in the atmosphere**

1. **DNA and RNA interact in the process of protein formation. Which is a correct description of a step in protein synthesis that involves the actions of nucleic acids?**
   1. **DNA molecules move into the cytoplasm to produce transfer RNA**
   2. **Messenger RNA is made on a DNA template by the process of transcription**
   3. **Transfer RNA functions to proofread DNA to eliminate errors during replication**
   4. **The original code for proteins is contained in RNA which is transcribed and translated by DNA**

**3-17**

1. **What is the difference between evaporation and transpiration?**

**Evaporation comes from the ground, transpiration comes from leaves**

1. **According to Darwin’s theory of modification by natural selection,**
   1. **Individuals are modified by adverse environmental conditions**
   2. **The environment affects all organisms in a population in the same way**
   3. **Populations of all organisms grow unchecked under natural conditions**
   4. **Organisms that have more favorable traits (more fitness) tend to leave more offspring**