

Review Questions - Chapter 7 (Supplement 8)

Answer the following questions using your OWN WORDS!!!! DO NOT copy right out of the book!!! All answers should be hand-written!!

1. Distinguish between weather and climate. Describe the three major factors that determine how air circulates in the lower atmosphere.
2. Define and give four examples of a greenhouse gas. What is the greenhouse effect and why is it important to the earth's life and climate?
3. How do warm and cool ocean currents form? How do oceans affect regional climates? What is an upwelling, and why are upwellings important to aquatic life?
4. What is the El Niño–Southern Oscillation (ENSO)? How does it affect ocean life and weather in various parts of the world? What is La Niña, and how does it affect weather in various parts of the world?
5. What is the rain shadow effect, and how can it affect the microclimate on each side of high mountains? Why do urban areas have different microclimates than surrounding areas, and how do these microclimates differ from those of surrounding areas?
6. What is a biome? What two factors determine whether an area of the earth's surface is a tropical, temperate, or polar desert, grassland, or forest? How do climate and vegetation vary with latitude and altitude?
7. Describe how human activities have affected the world's deserts, grasslands, forests, and mountains.