****Global Systems   
The Greenhouse Effect**

**Comprehension Questions**

*Learning Intention:* To be able to explain the **factors** that drive the deep ocean currents, their **role** in regulating global climate, and their **effects** on marine life.

*Activity:* Watch [the video](http://www.viewpure.com/bpa0aFY--pE) (up to 3:30) and complete the questions below.

1. The ocean currents and wind systems transport heat from the \_\_\_\_\_\_\_\_\_\_ to the \_\_\_\_\_\_\_\_.
2. In thermohaline, “thermo” refers to \_\_\_\_\_\_\_\_\_\_\_\_\_\_ and “haline” refers to \_\_\_\_\_\_\_\_.
3. Primarily the different \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the global oceans are responsible for their movement.
4. Warm water \_\_\_\_\_\_\_\_\_\_\_ while cold water \_\_\_\_\_\_\_\_\_\_\_.
5. Where does the Gulf Stream begin?  
   ⃝ a) Europe  
   ⃝ b) The equator  
   ⃝ c) The Gulf of Mexico  
   ⃝ d) The poles
6. The Chimneys is a bit like an underwater waterfall because large amounts of water are sinking rapidly. This is caused by:   
   ⃝ a) Higher salt content  
   ⃝ b) Higher density  
   ⃝ c) Evaporation  
   ⃝ d) All of the above
7. How is the Gulf Stream used by marine life?

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1. Describe how Europe’s climate would be different without the Gulf Stream.

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