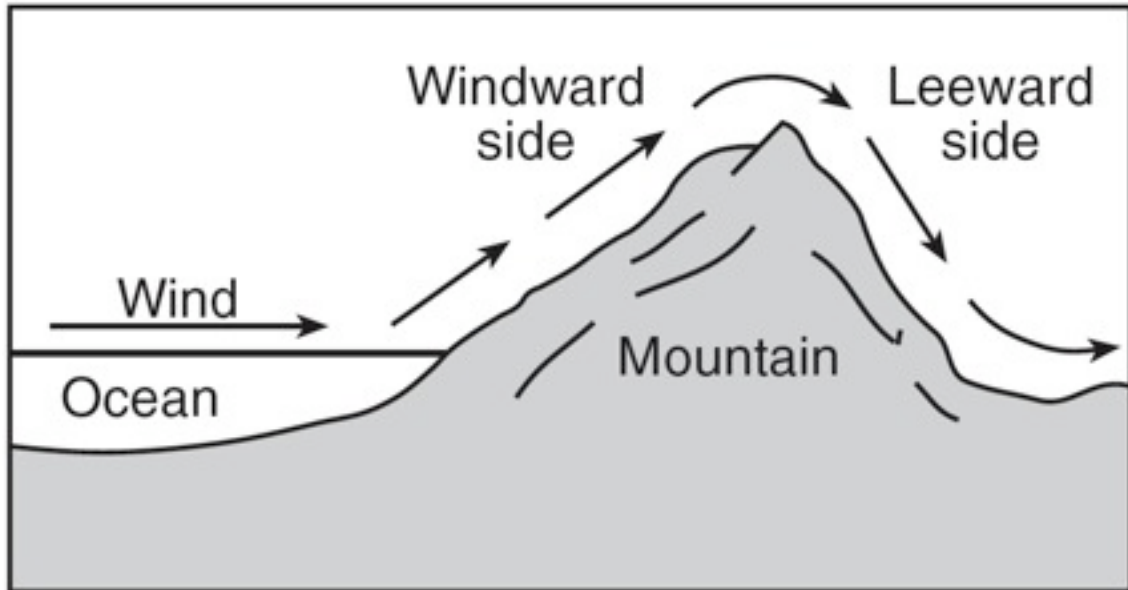


**Orographic Lifting**

1. What side of the mountain will get the majority of the precipitation? \_\_\_\_\_
2. Tell me what the temperature and humidity will be like on the Windward side?  
\_\_\_\_\_
3. What happens to the air mass as it begins to rise over the mountain? \_\_\_\_\_
4. What temperature does the air mass cool to? \_\_\_\_\_
5. As air rises, it cools and (expands or contracts)? \_\_\_\_\_
6. What phase change occurs as a cloud forms? \_\_\_\_\_
7. When the air mass goes over the mountain, is the humidity high or low? \_\_\_\_\_
8. The Leeward side of the mountain has a phenomenon called "The \_\_\_\_\_ Shadow Effect"
9. Tell me what the temperature and humidity will be like on the Leeward side?  
\_\_\_\_\_
10. As air sinks on the Leeward side it will warm due to (expansion or contraction?)  
\_\_\_\_\_
11. What is orographic lifting?  
\_\_\_\_\_  
\_\_\_\_\_
12. What is adiabatic temperature change?  
\_\_\_\_\_  
\_\_\_\_\_