



## Exercise: 1

**Instructions:** Idaho can get many different weather patterns and the weather can change quickly. When hiking or camping in the mountains this weather change can seem especially rapid so always be prepared. By doing this exercise, you will become much more familiar with weather. Answer the following completely and accurately.

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1. Describe the process of evaporation. What factors can influence the rate of evaporation?
2. As air cools, what happens to the relative humidity? (assume all other factors remain constant).
3. When dew point is reached, would you expect the relative humidity to be high or low?
4. If one volume of air contains twice as much moisture as another volume of air, what does it tell us about the relative humidity of the two volumes of air? Do we have all the information we need to determine the relative humidity?
5. What is required for condensation to occur?
6. What is haze and describe how haze forms.
7. When warm moist air rises, what should we expect to happen?
8. When a warm, moist front meets a cold, dry front, what should we expect to happen?
9. What is a rain shadow and what causes it?
10. What type of weather should we expect if the barometric pressure is dropping?