

Name _____

Chemical Substances Survey (Set B)

1. You have a cup of an unidentified liquid in front of you. How would you determine whether or not this is water?



[andrewkuzmin] © 123RF.com

2. You heat a pot of water over a stove and it begins to boil. What is in the bubbles that are rising to the surface?

Please justify your response. How do you know what is in the bubbles?

Is there any additional information you would like to know in order to determine what is inside the bubbles? If so, what information? How would this information help you make a decision?

Name _____

3. In its natural state, oxygen is a gas. If you had an unlabeled cylinder filled with gas, how would you determine if it is oxygen? Please explain your response.

4. Carbon dioxide also occurs naturally as a gas. How would you tell the difference between carbon dioxide and oxygen? Please explain your response.

Is there other information you would like to know in order to tell the difference between carbon dioxide and oxygen? If so, what information? How would this information help you tell the difference between carbon dioxide and oxygen?