## **Kitchen Chemistry Homework #5**

## Homework Questions:

## Scone Specific Questions:

- 1. How does vinegar curdle milk?
- 2. What is the chemical process that happens when vinegar is added to milk?
- 3. What happens to the sugar on top of the scone when you cook the scone?
- 4. Why don't you want to knead the scone dough for a long period of time?
- 5. Could you make this scone with baking powder instead of baking soda? If you wanted to use baking powder, what ingredient is not necessary? Why?

## Coffee Specific questions

- 1. How and where was coffee discovered?
- 2. What are the two types of coffee that are extensively cultivated?
- 3. There are four main steps to coffee roasting, first roasting, first crack, pyrolysis, and then second crack. Please describe what is happening at each stage.
- 4. How much caffeine is in an average sized cup?
- 5. Caffeine has been described as the most widely used drug in the world. What is the main target of caffeine in the body? (think receptor/ligand interaction and identify the target receptor)
- 6. What happens when you stop drinking your daily coffee? why?
- 7. What are the three main ways that coffee can be decaffeinated?
- 8. What contributes chemically to the staling of coffee?

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