Chemistry Questions

# Round 1

1. How do you make a solution?
2. What are some characteristics of bases?
3. What are some characteristics of acids?
4. What are limiting reagents?
5. Name 3 indicators?
6. Name two types of chemical reactions.
7. What does a combustion reaction produce?
8. What is the difference between fusion and fission?
9. What are aqueous solutions?
10. What are the everyday uses of Stoichiometry?
11. What is the difference between molality and molarity?

# Round 2

1. What is the relationship between pH and pOH?
2. How you can predict the product during the process of neutralization?
3. What is a solubility curve?
4. State the difference between molality and molarity.
5. What are the pros and cons of radioactivity?
6. Name the phases of compounds and elements.
7. What is a single displacement reaction?
8. What is a dilution?
9. What is an alloy?
10. What is the most common solvent?
11. Define alpha and beta decay.

# Round 3

1. What is the difference between the formation of a mixture and the formation of a solution?
2. How do you balance chemical equations?
3. How to calculate the half life of an element?
4. What is the limiting reagent and how to find it?
5. Why is so difficult to make fusion?
6. What is the difference between theoretical yield and actual yield?
7. What is a neutralization reaction?
8. What color does Bromothymol Blue turn when it is a base?
9. What are conjugate pairs?
10. What is Arrhenius’ definition of acids and bases?
11. What is the endpoint of Phenolphtalein?

# Round 4

1. What is the difference between Arrhenius and Bronsted-Lowry?
2. What is Avogadro’s number?
3. State pros and cons of radioactivity.
4. What are the different characteristics of solutions?
5. What does the litmus paper do? What colors does it have and what does each color represent?
6. What is the pH used for? Why is it necessary to know the pH of a solution?
7. What are the different types of chemical reactions?
8. Why do we use indicators?
9. How to identify solids, liquids, aqueous, and gas?
10. What is Molarity?
11. What is Dilution?

# Round 5

1. How do we find excess reagent?
2. What is Neutralization?
3. How do we find the Molarity of pH and pOH
4. What is Arrhenius’ definition of acids and bases?
5. What is the difference between molality and molarity?
6. How to make a dilutions?
7. What does Bronsted-Lowry state?
8. What is the endpoint of Phenolphtalein?
9. How to calculate theoretical yield and percent composition?
10. What are the characteristics of solutions?
11. How to balance a chemical equation?