SCH 4U - 2020-05-05 (Tuesday)

From: Fred Schlenker <fred_schlenker@bwdsb.on.ca>

Date: Tue, 5 May 2020 12:28:47 +0000 (*2020-05-05 08:28:47 AM*)

Good Morning All:

Please check in before your start:https://forms.office.com/Pages/ResponsePage.aspx?id=GAmpRLReCU2WCd35yhGvQsuodiaVPQJHoMguHaAhWSBUM1VaNTBVVIBVN1dJV0pQUDcxTTY3Qzk0VSQlQCN0PWcu

The goal today is to submit answers to these two "quiz" questions. The first question will require a reaction and a titration equation to start the answer. The second question only requires a titration equation to start, since it is a multiple component problem.

1. Determine the concentration of a potassium hydroxide solution if 32.3 mL of 0.25 M H_2SO_4 is required to neutralize a 150 mL sample of the potassium hydroxide solution.

2. Determine the mass in kg of Na_2CO_3 (diprotic) required to achieve neutralization from the following mess of acids and bases (you might need to turn you page sideways to make this question fit!!):

- 25.0 L of 18.0 M H_2SO_4
- 15.0 L of 17.4 M CH_3COOH
- 10.0 L of 14.8 M H_3PO_4
- 25 kg of NaOH
- 40 kg of $NaHCO_3$ (monoprotic)

Good Luck!

Mr. Schlenker