

17 Voltaic Cell Lab (Eduweblabs) (3351729)

Question

1 2 3 4 5 6 7 8

Description

This assignment is to be used with the Eduweblabs Volatic Cell virtual Lab.

Instructions

Use the following table of standard reduction potentials for all calculations:

[ap04_chem_standard_9793](#)

[Calculations Voltaic Cell Lab](#)

1. Question Details

Upload Lab Photo [3413757]

Upload a photo of the lab apparatus with your face in the photo as you perform some part of the lab. Title the image with a unique file name before you upload it. (Maybe use your initials and part of the lab title) no file selected **It** must be less than 5 MB in size.

2. Question Details

Eduweblabs Voltaic Cell Data [2537376]

- a. Observed Zn/Cu voltage: V
- b. Observed Pb/Cu voltage: V
- c. Observed Zn/Pb voltage: V
- d. Calculated (accepted value) Zn/Cu voltage: V
- e. Calculated (accepted value) Pb/Cu voltage: V
- f. Calculated (accepted value) Zn/Pb voltage: V
- g. Enter the concentration of Zn^{2+} : M
- h. Enter the concentration of Cu^{2+} : M
- i. Calculated voltage of the Zn/Cu cell using the concentrations from questions g and h at 25°C: V

3. Question Details

Eduweblabs Voltaic Cell Rxn Cu/Zn [2537820]

Write the equation for the zinc/copper cell. (Use the lowest possible coefficients. Omit states-of-matter in your answer.)

4. Question Details

Eduweblabs Voltaic Cell Rxn Zn/Pb [2537824]

Write the equation for the zinc/lead cell. (Use the lowest possible coefficients. Omit states-of-matter in your answer.)

5. Question Details

Eduweblabs Voltaic Cell Rxn Cu/Pb [2537823]

Write the equation for the lead/copper cell. (Use the lowest possible coefficients. Omit states-of-matter in your answer.)

6. Question Details

Eduweblabs Voltaic Cell Lab 05 [2537883]

Which of the following could cause the observed voltage in a voltaic cell to be higher than the accepted value?

- $Q < 1$
- $Q > 1$
- $Q = 1$
- The temperature is above 25°C
- The temperature is below 25°C
- The concentration of the half-cells is not 1.0 M

Explain your answers.

7. Question Details

File Report Eduweblabs [3776855]

Did you click the "special" button and file your report in Eduweblabs?

8. Question Details

Observations, Skills utilized and learning [3413764]

What observations did you make during the lab? What chemistry concepts, laws, and/or skills were necessary to complete this lab? What did you learn or re-learn? Use complete sentences.

Assignment Details

Name (AID): **17 Voltaic Cell Lab (Eduweblabs) (3351729)**Submissions Allowed: **5**Category: **Lab**

Code:

Locked: **Yes**Author: **Ryan, Matt** (mryan@allsaintsschool.org)Last Saved: **Apr 5, 2018 02:02 PM CDT**Permission: **Protected**Randomization: **Person**Which graded: **Last****Feedback Settings**

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Question Part Score

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