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| **ACIDS AND BASES UNIT**: Group Experiment and Presentation Rubric |
| **Typed Proposal [50 pt]*** 3-5 pages, double spaced, Times New Roman, 12 pt font \_\_\_/2

Intro paragraph: * Purpose and importance of project \_\_\_/2
* Application of project to life \_\_\_/2

Body paragraph: Science behind it… * Procedure explained \_\_\_/3
* Data and results and explained \_\_\_/10
* Connection of results to purpose of project \_\_\_/3

Body paragraph: Supporting Science with Research* Minimum 3 paragraphs \_\_\_/2
* Minimum of 3 reliable resources cited \_\_\_/3
* All concepts to the right are thoroughly and accurately included \_\_\_/20

Conclusion paragraph* Recap the purpose and importance of your paper \_\_\_/2
* Final statement of why your research is most worthy of being publicized \_\_\_/1
 | **Concepts that must be addressed:***Acids and Bases** Define acids and bases according to acid-base theory
* Identify the acids and bases used/studied in your project

*pH Scale** Explain what the pH scale is
* Explain how the pH scale

Works* Explain how the pH scale relates to hydrogen concentration

*Indicators** Purpose of indicators
* Identify indicator(s) used
* Explain what the colors observed in lab mean
 |
| **Billboard Design [20 pts]**Formatting: * 11” x 17”, landscape \_\_\_/2

Information to Include: Sell your research…* Importance and purpose \_\_\_/3
* Research and data highlights \_\_\_/10

Appearance: * Pleasing to the eye and creative \_\_\_/2
* Most important parts are emphasized and catches the eye first \_\_\_/3
 | **Presentation Pitch [10 pts]**1 minute pitch to the advertisement committee and 1 minute Q&A to follow* Proves why your research team deserves the billboard space based on lab work and research \_\_\_/8
* Pitch is no more than 1 minute long \_\_\_/2

\*Winner of billboard space determined by majority vote of class.\*Winner will receive 15 bonus points on grade. |
| **Peer, Group, and Teacher Evaluation [20 pts]*** 25% based on peer evaluation (To be given out on the day of poster presentation) \_\_\_/5
* 25% based on group member evaluations (based on participation and contributions) \_\_\_/5
* 50% based on teacher evaluation \_\_\_/10
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Project Submission (1 per group):

Proposal, billboard design, and self-graded rubrics should be handed in or emailed to breanna.eng@rcsdk12.org

\*\*Each person must hand in this packet completed.

PEER REVIEW FORM

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| **Presenters** | **Billboard Design****1 - 5** | **Reason for score** **(Give specific examples)** | **Pitch** **1 - 5** | **Reason for score** **(Give specific examples)** | **Questions/Comments you thought of or asked** |
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PEER REVIEW FORM

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| **Presenters** | **Billboard Design****1 - 5** | **Reason for score** **(Give specific examples)** | **Pitch** **1 - 5** | **Reason for score** **(Give specific examples)** | **Questions/Comments you thought of or asked** |
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# And the winner is…

Which group do you think should win? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Give a brief explanation that explains why. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

GROUP EVALUATION FORM

This form will only be read by the teacher. Please be honest and fair. Give credit where credit is due. You should include yourself in the evaluation.



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| **Participation with writing proposal** | **Participation with designing billboard** | **Participation with presentation** |
| **Group Leader Name:** |
| Score: \_\_\_\_\_ because… | Score: \_\_\_\_\_ because… | Score: \_\_\_\_\_ because… |
| **Group Designer Name:** |
| Score: \_\_\_\_\_ because… | Score: \_\_\_\_\_ because… | Score: \_\_\_\_\_ because… |
| **Group Reporter Name:** |
| Score: \_\_\_\_\_ because… | Score: \_\_\_\_\_ because… | Score: \_\_\_\_\_ because… |

1. What do you think your group did best? Why?

2. What do you think your group could work on? Why?