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****Northern Virginia’s Regional SeaPerch Challenge: Engineer Notebook Challenge****

**Team:** Please Place Label Here **Judge: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Total Score\_\_\_\_\_\_\_\_\_\_\_\_**

| **Design Element** **Rubric Points**  | **Cover Page, Presentation, Requirements***(Worth 10 Points)* | **ROV Design and Testing and Explanation of each***(Worth 20 points)* | **Design drawings, CAD documents, photos, & other supporting material**(Worth 20 Points) | **Team Work***(Worth 20 Points)* | **Vocabulary Concepts***(Worth 10 Points)* | **Organization of Team Answers***(Worth 10 Points)* | **Presentation Notebook***(Worth 10 Points)* |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Excellent 10/10****Or****20/20** | - Cover Page, Title Page and Table of Contents complete and accurate* Presentation is professional and attractive
* Team logo design is present, neat and is original artwork
 | -Documentation of the REAL design and development process of the SeaPerch, the flow, comments and progress demonstrate the real process. -Explains why final design was implemented. -Demonstrates understanding of design decision process and in a clear, concise manner.-Contains the statement relating to either research or learning that occurred while building SeaPerch.-  Includes sources used for research and/or learning. | -SeaPerch notebook included 12 or more graphical/pictorial documents relating to the design and build of their SeaPerch. -Each graphic was documented in written form accurately and understandably. | The SeaPerch Notebook clearly describes:(1) how team members worked together and how they helped other team members(2) How the team split up responsibilities(3) Who did what (4Tthe biggest lesson that the team learned(5) The biggest factors of success for the team | Correctly answered all of the vocabulary concept questions. | - The presentation was well organized, and each member of the team understood each participant’s role in the presentation. -The presentation flowed smooth and clearly from one topic point to another. | -Clear, creative and professional looking Notebook. -All required areas of Notebook content are included, and each area depicts a real working document. -The Notebook is to reflect the REAL design and development process of the SeaPerch, the flow, comments and progress demonstrate the real process.  -Each student shared in the SeaPerch Notebook explanation to the judges. |
| **Good****8/10****or****15/20** | - Cover Page, Title Page and Table of Contents complete and accurate. - Presentation has a small spackle professional look.- Team logo design is present and is original artwork | -All the above with some room for improvement. | -SeaPerch notebook included 8 or more graphical/pictorial documents relating to the design and build of their SeaPerch. -Each graphic was documented in written form accurately. | The SeaPerch Notebook clearly describes 4 of the 5 items above. | Answered all of the vocabulary concept questions, one or two answers were not accurate. | - The presentation was somewhat organized, and each member of the team somewhat understood each participant’s role in the presentation. There was one time when two people spoke, but the team worked it out.-The presentation flowed smooth and clearly from one topic point to another. | -Clear, creative and professional looking Notebook. -Most of the required areas of Notebook content are included, and each area depicts a real working document. -The Notebook is to reflect the REAL design and development process of the SeaPerch, the flow, comments and progress demonstrate the real process.  -Each student shared in the SeaPerch Notebook explanation to the judges. |
| **Fair****6/10****or****10/20** | **-** Cover Page, Title Page and Table of Contents have a good start, but are not complete and/or accurate**-** Team logo is present | -Has several entries but does not document the entire design/testing process.-Does document design selection with a good explanation.-Minimal statement related to research and learning. | -SeaPerch notebook included 8 or more graphical/pictorial documents relating to the design and build of their SeaPerch. -Written document does not address the graphics. | The SeaPerch Notebook clearly describes 3 out of 5 items above. | Answered some of the vocabulary concept questions, those answered were correct. | - The presentation was NOT well organized, but the information was delivered.-Individuals did not always have a concise answer, or more than one person spoke. | ONE of the following:-Notebook is presented lacks look and presentation. OR content of the notebook demonstrates a backward reflection (entries made after the steps are finished rather than as the steps are occurring) on the process rather than a work in process document. OR Some of the required sections of the notebook are missing. |
| **Needs Improvement 4/10****Or** **5/20** | - Cover Page, Title Page and Table of Contents are present, but with either omissions or errors; or one or more are not present.- No team logo design present | -Has several entries but does not document the entire design/testing process.-Does not clearly document final design selection or-poor explanation to judges or-no statement relating to research or learning. | -SeaPerch notebook included less than 8 graphical/pictorial documents relating to the design and build of their SeaPerch. -Written document does not address the graphics or does not exist. | The SeaPerch Notebook clearly describes 2 out of 5 items above. | Answered some of the vocabulary concept questions, some of the answers were not accurate.  | -The presentation was NOT well organized.-There were times when two people would speak or no one would speak. | More than one of the following:-Notebook is presented lacks look and presentation. -OR content of the notebook demonstrates a backward reflection (entries made after the steps are finished rather than as the steps are occurring) on the process rather than an work in process document. --OR some of the required sections of the notebook are missing. |
| **Score** |  |  |  |  |  |  |  |