Name:

Period #

**Technology Assessment Criteria - Hand Eye Coordination Project**

***Criterion D: Evaluating***

***Maximum: 8***

Students evaluate a solution. At the end of year 5, students should be able to:

1. Design detailed and relevant testing methods, which generate data, to measure the success of the solution
2. Critically evaluate the success of the solution against the design specifications
3. Explain how the solution could be improved
4. Explain the impact of the solution on the client/target audience

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| Achievement level | Level descriptor |
| 0 | The student does not reach a standard described by any of the descriptors below. |
| 1-2 | The student:  i. **designs a** testing **method**, which is used to measure the success of the  solution  ii. **states** the success of the solution. |
| 3-4 | The student:  i. **designs a relevant** testing **method**, which generates data, to measure  the success of the solution  ii. **outlines** the success of the solution against the design specification  based on **relevant** product testing  iii. **outlines** how the solution could be improved  iv. **outlines** the impact of the solution on the client/target audience. |
| 5-6 | The student:  i. design **relevant** testing **methods**, which generate data, to measure the  success of the solution  ii. **explains** the success of the solution against the design specification  based on **relevant** product testing  iii. **describes** how the solution could be improved  iv. **explains** the impact of the solution on the client/target audience, **with**  **guidance**. |
| 7-8 | The student:  i. **designs detailed and relevant** testing **methods**, which generate data, to  measure the success of the solution  ii. critically **evaluates** the success of the solution against the design  specification based on **authentic** product testing  iii. **explains** how the solution could be improved  iv. **explains** the impact of the product on the client/target audience. |

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| Evaluating | Strand | Initial Score | Final Score |
| Design **testing** methods:  ***Describe a test for each design specification, include the size of the sample desired, and describe the finding for each test.***  ***Sample:***  **Fun** – We will ask 10 pre-school children to play with our ***\_\_\_?\_\_\_ (name of the toy)***. While observing the children we collected the following data: willingness of the client to try the toy; willingness to continue playing with the toy; evidence of appropriate challenge for the client; frequency of frustration.  **Improves Hand Eye Coordination**  **Safe**  **Self-Contained**  **Robust**  **Other** \_\_\_\_\_\_\_\_\_\_\_\_ |  |  |
| Evaluate the **success** of the solution:  ***Describe here the success of your Hand Eye Coordination Toy based on the data collected from your Tests above.***  After collecting all relevant data for each test we will rate the performance of the toy against each design specification with one of the following: Excellent, Good, Fair, or Failed.  ***Sample:***  **Fun** - 2 children were not able to understand how to operate the toy; 2 children tried playing with the toy but soon stopped and began playing with other children; 6 children were able to successfully use the toy and continued to use it willingly; 2 of those 6 children who were successful, vigorously challenged one another to compete for which could solve the problem faster. With this data we have rated the performance on this design specification as –**Good**.  **Improves Hand Eye Coordination**  **Safe**  **Self Contained**  **Robust**  **Other**\_\_\_\_\_\_\_\_\_\_\_ |  |  |
| Explain how the solution could be **improved**:  ***Describe any changes you would make which would help your toy better meet the needs of your clients.*** |  |  |
| Explain the **impact** of the solution:  ***Think about skill development of pre-school children, needs of parents, and entertainment for families when you do this part. How will your toy help your client/s?*** |  |  |