Celebrity Lab: Open-Ended Activity Scoring Guidelines and Notes

Skill	Task	Scoring Criteria	Decision Rules	Score & Notes
Row 1 **Code Implementation:** Write program code to create objects of a class and call methods. **Emerging**	Program	A complete program with a `main` method was submitted.	**Do NOT award a point if:** ▪ no program is submitted; or ▪ the program submitted does not contain a `main` method.	Student response earns this point: ☐Yes ☐No Comments:
Row 2 **Program Design and Algorithm Development:** Determine an appropriate program design to solve a problem or accomplish a task. **Emerging**	Response to Question 1	The written response: ▪ Explains why this program topic was selected.	**Do NOT award a point if any one of the following is true:** ▪ the explanation does not match the program submitted; or ▪ the response does not provide an explanation for the selection of the implemented program.	Student response earns this point: ☐Yes ☐No Comments:
Row 3 **Program Design and Algorithm Development:** Determine an appropriate program design to solve a problem or accomplish a task. **Emerging**	Response to Question 2	The written response: ▪ Describes the development process used to implement the provided program.	**Do NOT award a point if:** ▪ only one aspect of the process (such as brainstorming) is described.	Student response earns this point: ☐Yes ☐No Comments:

Skill (continued)	Task	Scoring Criteria	Decision Rules	Score & Notes
Row 4 **Program Design and Algorithm Development:** Determine an appropriate program design to solve a problem or accomplish a task. **Proficient**	Response to Question 3	The written response: ▪ Describes another class that could be designed as a subclass to the superclass created.	**Do NOT award a point if:** ▪ the described class would not be an appropriate subclass of the created superclass.	Student response earns this point: ☐Yes ☐No Comments:
Row 5 **Program Design and Algorithm Development:** Determine an appropriate program design to solve a problem or accomplish a task. **Proficient**	Response to Question 3	The written response: ▪ Describes additional attributes and behaviors for this new class and explains how this subclass would be useful.	**Do NOT award a point if any one of the following is true:** ▪ the response does not discuss additional attributes; or ▪ the response does not discuss additional behaviors; or ▪ the attributes or behaviors do not match the overall class description; or ▪ the response does not discuss why the new subclass would be useful.	Student response earns this point: ☐Yes ☐No Comments:

Skill (continued)	Task	Scoring Criteria	Decision Rules	Score & Notes
Row 6 **Program Design and Algorithm Development:** Determine an appropriate program design to solve a problem or accomplish a task. **Emerging**	Response to Question 4	An inheritance UML diagram for the classes created was submitted.	**Do NOT award a point if any one of the following is true:** ■ the UML diagram does not include all classes created; or ■ the UML diagram does not include the inheritance relationship between classes created.	Student response earns this point: ☐Yes ☐No Comments:
Row 7 **Code Implementation:** Write a program to create objects of a class and call methods. **Proficient**	Response to Question 5	■ Selected code segment contains polymorphism.	**Do NOT award a point if any one of the following is true:** ■ the code segment does not contain polymorphism; or ■ the code segment contains syntax errors.	Student response earns this point: ☐Yes ☐No Comments:
Row 8 **Documentation:** Describe the behavior of a given segment of program code. **Advanced**	Response to Question 5	Written response: ■ Describes how implementing this program without inheritance would change the complexity of the program.	**Do NOT award a point if any one of the following is true:** ■ only syntactical differences are discussed; or ■ complexity is not described; or ■ the description provided does not discuss the provided code segment.	Student response earns this point: ☐Yes ☐No Comments: