

Name \_\_\_\_\_

Site \_\_\_\_\_

Name \_\_\_\_\_

Name \_\_\_\_\_

**Scientific Inquiry**  
 AVUHSD STEM Expo  
 Judging Evaluation Form



**General Requirements Evaluation\***

Presentation Display		Log Notebook	
Attractive, easy to read, and layout is in appropriate logical order	ND 1 – 2 – 3 – 4 – 5	Format: Log notebook is made of sturdy materials, numbered pages, and all entries dated and written legibly in ink.	ND 1 – 2 – 3 – 4 – 5
Shows project in appropriate detail for understanding by audience	ND 1 – 2 – 3 – 4 – 5	Evidence of Planning: background research, show process of development, description of problems and solutions, research notes, data tables and analysis of data	ND 1 – 2 – 3 – 4 – 5
Student Presentation			
Professionalism / Delivery	ND 1 – 2 – 3 – 4 – 5		
Content Knowledge / Organization	ND 1 – 2 – 3 – 4 – 5		

**Scientific Inquiry Category Evaluation\*\***

Display and Documentation		General Process and Scientific Method	
Describes how/why the inquiry was formed and development of a hypothesis	ND 1 – 2 – 3 – 4 – 5	The purpose or problem clearly explains what is going to be experimented	ND 1 – 2 – 3 – 4 – 5
Investigation procedure is clearly explained.	ND 1 – 2 – 3 – 4 – 5	Appropriate and complete research was conducted	ND 1 – 2 – 3 – 4 – 5
Materials listed with consistent units of measurements (Metric system or British system). Graphs, data tables, and any other data are labeled correctly	ND 1 – 2 – 3 – 4 – 5	Hypothesis shows a relationship between independent and dependent variables	ND 1 – 2 – 3 – 4 – 5
Other considerations specific to category		Procedure description shows what observations will be made, what data will be collected, defines the number of trials, lists variables and control items	ND 1 – 2 – 3 – 4 – 5
Shows how the inquiry relates to real world application.	ND 1 – 2 – 3 – 4 – 5	Procedure is sequential, replicable,	ND 1 – 2 – 3 – 4 – 5
The idea for investigation is original or innovative	ND 1 – 2 – 3 – 4 – 5	Data are recorded both qualitatively and quantitatively.	ND 1 – 2 – 3 – 4 – 5
The procedure, materials, trial length, etc. are innovative or creative in approach	ND 1 – 2 – 3 – 4 – 5	Record of experiment includes observations, appropriate use of terms and measurement, analysis and reflections	ND 1 – 2 – 3 – 4 – 5
Offers advancement of understanding of scientific principles and/or the world around us	ND 1 – 2 – 3 – 4 – 5	Relate conclusion to the problem statement and incorporate results. States whether the data support or does not support the hypothesis.	ND 1 – 2 – 3 – 4 – 5
		Discuss possible sources of error and unresolved questions.	ND 1 – 2 – 3 – 4 – 5

Additional Notes and Comments

**Additional Items for Consideration**

Safety Considerations	
Team/External Considerations	
Artistry	

ND: Not Demonstrated, 1: Beginning, 2: Developing, 3: Average, 4: Accomplished, 5: Advanced  
 (\*See General Entry Rules and Requirements for further information, \*\* See Category Description for further information)