



# SHRINE VAILANKANNI SENIOR SECONDARY SCHOOL



( Affiliated to CBSE - New Delhi )

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## JUDGING CRITERIA FOR CATALYST

### 1. Scientific Thought

- Clarity of Problem/Objective: Is the problem or objective clearly stated?
- Hypothesis/Engineering Goals: Is the hypothesis or goal logical and well-defined?
- Procedure/Design: Are the procedures or design methods appropriate and well-planned?
- Variables and Controls: Are variables and controls properly identified and managed?
- Data Analysis: Is the data analyzed accurately and thoroughly?
- Conclusion: Are conclusions based on the data and do they address the hypothesis or goals?

### 2. Originality and Creativity

- Innovative Approach: Does the project demonstrate originality in its approach?
- Creative Thinking: Is there evidence of creative thinking in the problem-solving process?
- Unique Ideas: Does the project introduce new ideas or perspectives?

### 3. Thoroughness and Effort

- Completeness: Is the project complete and does it follow through with all necessary steps?
- Depth of Study: Does the project show depth in understanding and research?
- Effort: Is there clear evidence of effort and dedication?

### 4. Data Analysis:

- How was the data collected, and what methods were used to ensure its quality and integrity?
- What specific research question(s) or hypotheses did the project aim to address?
- How were these research questions or hypotheses formulated, and why were they chosen?
- What were the key findings or insights derived from the data analysis?
- What is the overall significance and contribution of the project to the field of study?
- Are there any potential implications for future research or applications based on the findings of this project?

### 5. Presentation and Communication

- Oral Presentation: Is the oral presentation clear, well-organized, and engaging?
- Written Report: Is the written report thorough, clear, and well-organized?
- Display: Is the display visually appealing and informative?
- Questions: Are questions answered accurately and confidently?

### SMART Analysis:

- Specific: The project may cover hypothesis, methodology, results, and conclusion.
- Measurable: The completeness of the project/ documentation may be checked against the four sections.
- Achievable: Participants should realistically fulfill this requirement with proper guidance and resources.
- Relevant: The project should essentially demonstrate scientific rigor and ensure that the project can be understood and evaluated.
- Time-bound: The project must be submitted on the day of the Science Fair for presentation.