

ORANGE COUNTY SCIENCE & ENGINEERING FAIR – JUDGE'S WORKSHEET - **MATHEMATICS / COMPUTERS PROJECT**

<i><b>PROJECT # →</b></i>							
<p><b>A. Mathematics and Computers Creativity (25 points total)</b></p> <p>1. The mathematics or computer usage for this project is extended beyond that commonly taught at this grade level.</p> <p>2. The project represents a new point of view or a more in-depth study of a standard topic.</p> <p>3. The mathematical concepts or methods of computer programming are used ingeniously.</p> <p>4. Interpretation of results shows student's creative involvement.</p> <p>5. Student shows understanding of the mathematical or computer science context related to the project.</p>							
<p><b>B. Analytical Methods (30 points total)</b></p> <p>1. The purpose is clearly and succinctly stated.</p> <p>2. The background theory to support the project is explained.</p> <p>3. All initial conditions are given.</p> <p>4. The conclusions follow logically from the hypothesis or initial conditions.</p> <p>5. The measure of development found in references and the amount of original work is well-defined.</p> <p><b>6. The project shows depth of study and effort.</b></p>							
<p><b>C. Presentation (20 points total)</b></p> <p>1. The visuals are clear, clean, neat, and easily understood.</p> <p>2. The written descriptions show correct grammar and spelling.</p> <p>3. Mathematical symbols or computer program readouts are standard or carefully explained.</p> <p>4. Computational or programming methods are completely shown or outlined in detail.</p>							
<p><b>D. Background (25 points total)</b></p> <p>1. The study is complete within the scope of the problem.</p> <p>2. The appropriate literature has been searched.</p> <p>3. All original calculations or computer programs are available.</p> <p>4. Special mathematical, computational, or programming skills are evident.</p> <p>5. A well-organized and neat notebook clearly demonstrates the student's involvement in all aspects of the project.</p>							
<i><b>TOTAL POINTS FOR THIS PROJECT →</b></i>							