### Rubric for Aortic Valve Model Portfolio/Presentation

For each category, choose the appropriate rating level exhibited by the project and write that number in the blank space to the right of the rating. Tally the numbers to get the total score.

1. **Introduction and Rationale**
   - Rating 4 (Challenge is clearly defined, and reasons for testing are given)
   - Rating 3 (Challenge is defined, and some explanation given)
   - Rating 2 (Challenge is mentioned, with little explanation given)
   - Rating 1 (Challenge is mentioned, with no explanations given)

2. **Research**
   - Level 4 (Challenge is researched, with data relevant to problem described)
   - Level 3 (Challenge is researched, with minimal relevance to problem given)
   - Level 2 (Challenge is researched, with no relevance to problem given)
   - Level 1 (Challenge is not researched)

3. **Plan/Design**
   - Level 4 (Design is clearly shown and outlined)
   - Level 3 (Design is shown, but not clearly outlined/described)
   - Level 2 (Design is present, but not elaborated on at all)
   - Level 1 (Design is not shown or described at all)

4. **Testing Procedures**
   - Level 4 (Includes all steps of scientific method with explanations)
   - Level 3 (Includes all steps of scientific method without adequate explanation)
   - Level 2 (Is missing some step[s] of the scientific method)
   - Level 1 (Does not show signs of scientific method planning)

5. **Data Presentation**
   - Level 4 (Data is in graphical form and correctly labeled)
   - Level 3 (Data is in graphical form with some incorrect labels)
   - Level 2 (Data is in graphical form with no labels)
   - Level 2 (Data is absent/not in graphical form)

6. **Data Analysis**
   - Level 4 (Data is analyzed statistically and relevance is explained)
   - Level 3 (Data is explained, and the relevance is explored)
   - Level 2 (Data is presented with minimal explanation)
   - Level 1 (Data is not really presented or explained at all)
<table>
<thead>
<tr>
<th>Task</th>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3</th>
<th>Level 4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>7. Model Construction/Testing</strong></td>
<td>Model is not well thought out, researched or tested</td>
<td>Model does not show planning or appropriate structure, some testing evident</td>
<td>Model is based on research, but lacks some structural component; model is tested</td>
<td>Model is based on research with appropriate structure and testing</td>
</tr>
<tr>
<td><strong>8. Conclusions</strong></td>
<td>Conclusions do not relate to problem; no recommendations; many grammar errors present</td>
<td>Conclusions relate back to problem; recommendations are absent; some writing errors might be present</td>
<td>Conclusions and recommendations relate back to original challenge; have some writing errors</td>
<td>Conclusions and recommendations relate back to original challenge; are well written</td>
</tr>
<tr>
<td><strong>9. Portfolio</strong></td>
<td>Many errors and is lacking images</td>
<td>Portfolio has some organizational and grammatical errors</td>
<td>Portfolio is well organized, few errors, and has images</td>
<td>Portfolio is well organized, free from error, and has images</td>
</tr>
<tr>
<td><strong>10. References</strong></td>
<td>No references listed</td>
<td>Fewer than 3; errors in citing and grammar</td>
<td>Fewer than 5; may be errors in citing and grammar</td>
<td>At least 5; each is appropriately cited with no errors</td>
</tr>
</tbody>
</table>

**TOTAL** (10 x 4 = 40 points maximum)