

## Non-Testable Question – Models and/or Simulations Rubric Grades 3-5

**Using the Rubric:** Begin in the left-hand column (Required Elements). Mark each category by circling the description that best matches the project. Multiply each score with its weighting factor to get a final score. Total the final scores at the bottom.

Required Elements	0	1 Point	2 Points	Weight	Score
<b>Research Question</b> (A question that explains what was studied)	<b>ELEMENT NOT PRESENT OR NOT SCORABLE</b>	States a research question, but inaccurate, incomplete, or lacks enough detail	States a research question that has ample details that accurately reflects the investigation being done	<b>x 4</b>	
<b>Research</b> (Scientific facts to support the creation of the model or simulation) <ul style="list-style-type: none"> <li>• What natural world object or process does your model represent?</li> <li>• What characteristics of your object/process are included in your model/simulation?</li> <li>• What data influenced the development of your model?</li> </ul>		Inaccurate or incomplete information or facts	Accurate, complete information that supports the model or simulation with resources cited	<b>x 5</b>	
<b>Materials List</b> (Detailed, bulleted list of all items that were used – think recipe; includes quantities and measurements) **No brand names		Lists partial, confusing, or inaccurate materials or lacks quantities or measurements	Lists complete set of materials; sufficient detail to duplicate directions (quantities, metric measurements, tools, etc.)	<b>x 4</b>	
<b>Visual Representation</b> (Includes a representation – picture, diagram, photo, etc. – of the model or simulation)		Visual element present but unclear what it represents; lacks details	Proper visual shown that accurately represents the model/simulation; detailed and well executed	<b>x 10</b>	
<b>Description of the Model and/or Simulation</b> (Describes the object/process the model represents or how the simulation works)		Lists some steps; gives partial, confusing, or out-of-order steps; lacks enough detail to follow	Gives complete list of steps with details such that the investigation could be duplicated	<b>x 8</b>	
<b>Explanation</b> (Summary of findings that provides an answer to their research question)		Conclusion statement is present, but inaccurate or incomplete	Explanation is accurate and provides an answer to the research question based on their findings	<b>x 10</b>	
<b>Real World Uses Relating to Research</b> (Ways the information might be used beyond this investigation)		States one or more uses, but is incomplete, inaccurate, or lacks details	States three or more possible uses related to the research question; includes good detail	<b>x 4</b>	
<b>Science Journal</b> (Record of directions, observations, diagrams, and data collected throughout the process; information detailed enough to be replicated accurately)		Some elements are missing, incomplete or inaccurate	All elements present, accurate, good detail and few errors	<b>x 3</b>	
<b>Display Board or other Presentation Format</b> (Projects presented in a digital format must be converted to a display board if chosen to represent school in the District Science Showcase.)		Some elements are missing, incomplete or inaccurate	All elements from journal are present and accurate with good detail and few errors, including a title	<b>x 2</b>	

Comments:

Total Score

**/100**