

## Theme 7 Performance Task Assessment

Your performance task will be evaluated according to the scoring rubric provided below.

Criteria	Above Average (4)	Sufficient (3)	Developing (2)	Needs Improvement (1)
<b>Mathematical Understanding</b>	Correctly explains and applies concepts of experimental and theoretical probability. Accurately compares results and provides strong reasoning for differences.	Explains experimental and theoretical probability with minor errors. Comparison of results is present but reasoning is limited.	Shows partial understanding; explanations contain inaccuracies or lack depth. Reasoning is weak.	Shows little or no understanding of probability concepts. Explanations are mostly incorrect or missing.
<b>Data Collection and Organization</b>	Data from all trials (50–1000) is complete, accurate, and well-organized in tables. Notes are detailed and systematic.	Data is mostly complete and organized; minor inaccuracies may be present. Notes are present but not detailed.	Some data missing or disorganized. Notes are incomplete.	Data is largely missing, inaccurate, or not organized. No notes are provided.
<b>Graphs and Visual Representation</b>	Graphs (bar charts, tables, tree diagrams) are neat, accurate, and clearly show trends. Visuals strongly support analysis.	Graphs are mostly accurate and understandable; minor details missing.	Graphs are included but unclear, incomplete, or not strongly connected to analysis.	Graphs are missing, inaccurate, or irrelevant.
<b>Interpretation and Communication</b>	Report is clear, logical, and well-written. Explains the effect of increasing trials on probability differences with strong justification. Submitted on time.	Report is mostly clear and organized. Some explanation of trial effect is given but lacks depth. Submitted on time.	Report is vague or disorganized. Limited explanation of trial effect. Submitted late.	Report is unclear, incomplete, or missing. Little to no explanation of results.