

FOURTH GRADE SCIENCE RUBRIC

| | EMERGING | DEVELOPING | PROFICIENT | ADVANCED |
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| DEFINE PROBLEM | Defines a problem or design statement that is unrealistic OR does not match the intent of the problem. | Defines a problem or design statement that is realistic AND partially matches the intent of the problem or the constraints. | Defines a problem or design statement that is realistic AND matches the intent of the problem and the constraints. | Defines a problem or design statement that is realistic AND completely matches the intent of the problem and the constraints. |
| PLAN/ DESIGN MODEL | Constructs simple models (e.g., diagrams, drawings, etc.) to represent the process to be investigated that are incomplete or with major errors or omissions. | Constructs simple models (e.g., diagrams, drawings, etc.) to represent the process to be investigated that are incomplete or with minor errors or omissions. | Constructs simple, accurate models (e.g., diagrams, and/or drawings with labels, etc.) to represent the process to be investigated . | Constructs simple, accurate models (e.g. diagrams and/or drawings with labels, etc.) to represent the process to be investigated and explains how the parts of the model represents the “real thing”. |
| CONDUCT INVESTIGATION OR TEST DESIGN | Makes observations and/or measurements with multiple trials (if appropriate) of relevant data to make comparisons or to be used as evidence to answer the question(s) with major errors or omissions. | Makes observations and/or measurements with multiple trials (if appropriate) of relevant data to make comparisons or to be used as evidence to answer the question(s) with minor errors or omissions. | Makes observations and/or measurements with multiple trials (if appropriate) of relevant data to make comparisons or to be used as evidence to answer the question(s). | Makes observations and/or measurements with multiple trials (if appropriate) of relevant data to make comparisons or to be used as evidence to answer the question(s) and evaluates the data collection method used. |
| REPRESENT DATA | Constructs data tables and/or graphs that are not accurate or do not display all the data. | Constructs accurate and complete data tables and/or graphs but does not allow for identifying patterns between variables. | Constructs accurate and complete data tables and/or graphs and presents data to identify patterns between variables. | Constructs accurate and complete data tables and/or graphs and presents data to identify patterns and relationships between variables. |

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| ANALYZE RESULTS, DATA, FINDINGS | Analyzes data/results/findings using inappropriate methods or with major errors or omissions. | Accurately analyzes data/results/findings using appropriate methods or with minor errors or omissions. | Accurately analyzes data/results/findings using appropriate methods. | Accurately analyzes data/results/findings using appropriate methods and makes connections. |
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