Designing Effective Projects: Examining Rubrics Analytic Rubric Example

Sample Analytic Rubric

This sample analytic rubric is from the Unit Plan, <u>The Great Bean Race.</u>

Analytic Rubric from The Great Bean Race

Analytic Rubric from The Great Bean Race												
Arizona Grade												
3 Content	4	3	2	1								
Standards												
Understand Process of Plant Growth Understand the features and	 Accurately identifies and explains in detail all necessary conditions for 	 Identifies and explains the necessary conditions for plant growth 	 Explains the necessary conditions for plant growth with some errors 	 Explains the necessary conditions for plant growth with many errors Describes the life 								
processes of plant growth	 Describes the complete life cycle of plants Makes several informed inferences about the role of plants in the environment 	 Describes the life cycle of plants Makes informed inferences about the role of plants in the environment 	 Describes the life cycle of plants but leaves out some important information Makes some informed inferences and some incorrect ones about the role of plants in the environment 	 Describes the life cycle of plants inaccurately, leaving out important information Makes incorrect inferences about the role of plants in the environment 								
Design and Conduct an Experiment	 Develops a testable hypothesis 	 Develops a hypothesis 	 Develops a hypothesis with some 	 Develops a hypothesis with a great deal of 								
 Hypothesize, plan, and carry out experiments Organize evidence of change over time 	 Plans an experiment that can prove or disprove the hypothesis Successfully carries out an experiment that controls all variables Always observes, measures, and records change over time with accuracy 	 Plans an experiment that tests the hypothesis Carries out an experiment that controls some variables Usually observes, measures, and records change over time with accuracy 	 Plans an experiment that tests the hypothesis with some assistance Carries out an experiment that controls variables with 	 Plans an experiment that tests the hypothesis with a great deal of assistance Carries out an experiment that controls variables with a great deal of assistance Observes, measures, and records change over time with lots of errors 								

Analyze					
Results and					
Draw					
Conclusion					

- Analyze and report conclusions of experiments.
- Compare prior knowledge to the results of a scientific investigation
- Develop models (illustrations and charts) to explain how objects, events, and/or processes work.

- Successfully draws several conclusions based on evidence
- Communicates ideas clearly and concisely
- Considers
 additional
 variables when
 comparing
 findings with
 others to
 determine the
 best conditions
 for growing
 plants
- Compares
 previous
 knowledge
 about plants to
 the results of
 the experiment
 and describes
 new learning
 in detail
- Develops detailed models (illustrations and charts) with correct labeling to explain how plants grow.

- Draws some conclusions based on evidence
- Communicates ideas clearly
- Compares findings with those of others to determine the best conditions for growing plants
 - Compares
 previous
 knowledge
 about plants to
 the results of
 the experiment
 and describes
 new learning
- Develops models (illustrations and charts) with correct labeling to explain how plants grow

- Draws some conclusions that are not based on evidence
- Communicates ideas but may be unclear
- Compares findings with those of others but has difficulty determining the best conditions for growing plants
- Compares
 previous
 knowledge
 about plants to
 the results of
 the experiment
 , but the
 comparison is
 confusing or
 inaccurate
- Develops
 models
 (illustrations
 and charts)
 with labeling to
 explain how
 plants grow,
 but some
 elements are
 missing or
 incorrect

- Does not draw conclusions
- Does not communicate ideas clearly
- Does not compare findings or cannot determine the best conditions for growing plants
- Does not compare previous knowledge about plants to the results of the experiment
- Develops models (illustrations and charts) with labeling to explain how plants grow, but most elements are missing or incorrect

Γ	Manage Project							
	 Complete all components of the project 	•	Independently and successfully completes all	•	Independently completes all parts of the project	•	Completes all of the parts of the project with	Completes some of the parts of the project with assistance
	 Choose effective processes that lead to the successful completion of a project Work cooperativel y with others 		parts of the project Chooses helpful processes: uses timelines, asks for feedback, develops and follows a plan, monitors and	•	Chooses some helpful processes: uses timelines, asks for feedback, develops and follows a plan, monitors and adjusts as needed		assistance or independently completes some of the project Chooses some helpful processes with assistance: uses timelines, asks for	Does not choose helpful processes Fails to work cooperatively in a group
	in a group		adjusts as needed Works cooperatively and provides leadership in a group	•	Works cooperatively in a group		feedback, develops and follows a plan, monitors and adjusts as needed Works cooperatively in a group some of the time	