

Rubric for evaluation of Project- Science and Technology

Categories	Level 1 (50-59%)	Level 2 (60-69%)	Level 3 (70-79%)	Level 4 (80-100%)
Knowledge and Understanding- Subject-specific content acquired and the comprehension of its meaning and significance				
Knowledge of Content: Facts, terminology, definitions...)	Demonstrates limited knowledge of content	Demonstrates some knowledge of content	Demonstrates considerable knowledge of content	Demonstrates thorough knowledge of content
Understanding of content (e.g. concepts, ideas, theories, principles, procedures, processes)	Demonstrates significant misconceptions Gives explanations showing limited understanding of the concepts	Demonstrates minor misconceptions Gives partial explanations	Demonstrates no significant misconceptions Usually gives complete or nearly completed explanations	Demonstrates no misconceptions Always gives complete explanations
Thinking and Investigation- The use of critical and creative thinking skills and inquiry, research and problem-solving skills and / or processes				
Use of initiating and planning skills and strategies (e.g. formulating questions, identifying the problem, developing hypotheses)	Is able to formulate the question, identify the problem and formulate a hypothesis with limited effectiveness	Is able to formulate the question, identify the problem and formulate a hypothesis with some effectiveness	Is able to formulate the question, identify the problem and formulate a hypothesis with considerable effectiveness	Is able to formulate the question, identify the problem and formulate a hypothesis with a high degree of effectiveness
Use of processing skills and strategies (e.g. performing and recording, gathering evidence and data, observing)	Is able to gather data and information and perform research of topic with limited effectiveness	Is able to gather data and information and perform research of topic with some effectiveness	Is able to gather data and information and perform research of topic with considerable effectiveness	Is able to gather data and information and perform research of topic with a high degree of effectiveness
Use of critical/ creative thinking processes, skills and strategies (e.g. analyzing, interpreting, problem solving, forming and justifying conclusions on the basis of evidence)	Is able to identify trends, to develop new scientific conclusions based on data modeling or simulation, accompanied by literary search and use of statistical or other type of mathematical analysis with limited effectiveness	Is able to identify trends, to develop new scientific conclusions based on data modeling or simulation, accompanied by literary search and use of statistical or other type of mathematical analysis with some effectiveness	Is able to identify trends, to develop new scientific conclusions based on data modeling or simulation, accompanied by literary search and use of statistical or other type of mathematical analysis with considerable effectiveness	Is able to identify trends, to develop new scientific conclusions based on data modeling or simulation, accompanied by literary search and use of statistical or other type of mathematical analysis with a high degree of effectiveness
Communication- The conveying of meaning through various forms				
Expression and organization of ideas and information (e.g. clear expression, logical organization) in oral, visual and written forms (e.g. diagrams and models)	Is able to communicate and organize ideas with limited effectiveness	Is able to communicate and organize ideas with some effectiveness	Is able to communicate and organize ideas with considerable effectiveness	Is able to communicate and organize ideas with a high degree of effectiveness
	Is able to engage audience with limited effectiveness	Is able to engage audience with some effectiveness	Is able to engage audience with considerable effectiveness	Is able to engage audience with a high degree of effectiveness
Use of conventions, vocabulary, and terminology in the discipline in oral, visual, and / or written forms (e.g. symbols, formulae)	Uses vocabulary and terminology of the discipline with limited effectiveness	Uses vocabulary and terminology of the discipline with some effectiveness	Uses vocabulary and terminology of the discipline with considerable effectiveness	Uses vocabulary and terminology of the discipline with a high degree of effectiveness
Application- The use of knowledge and skills to make connections within and between various contexts				
Transfer of knowledge and skills (e.g. concepts and processes) to unfamiliar contexts	Is able to answer few or no questions with limited effectiveness	Is able to answer some of the questions with some effectiveness	Is able to answer most or all of the questions with some explanation and detail, therefore considerable effectiveness	Is able to answer most or all of the questions with great details, explanations, examples and/ or application therefore demonstrating a high degree of effectiveness