

WVSS Science Department Grades 8-10 Assessment Model 2020/2021

Mark Allocation:

Equally Weighted:

- Knowledge and Understanding
- Questioning, Procedures & Evidence
- Analyzing and Evaluating
- Communication, Perspectives & Ethics

Weekly Completion Assignments (Beginning or Developing)

Classroom quizzes and assignments for completion will be used to determine if the students are Beginning or Developing with respect to Content and Competencies.

Formal Content & Competency Assessments (Beginning, Developing, Achieving, Exemplary)

Each term, students will have opportunity to authentically demonstrate their Knowledge and Skills levels in a variety of formats such as Written Tests, Essays, Debates, Orals, Labs, Inquiry etc.

Beginning 1□		Developing 1.5□				Achieving 2.5□				Exemplary 3.5□		
The student demonstrates a limited understanding of the concepts and competencies relevant to the expected learning		The student demonstrates a partial understanding of the concepts and competencies relevant to the expected learning				The student demonstrates a complete understanding of the concepts and competencies relevant to the expected learning				The student demonstrates a sophisticated understanding of the concepts and competencies relevant to the expected learning		
1.0□50%	1.25□55%	1.50□59%	1.75□63%	2.00□67%	2.25□71%	2.50□75%	2.75□79%	3.0□83%	3.25□87%	3.50□91%	3.75□95%	4.00□99%

Example: This might be attached at the top of a Test

CONCERNS - Areas for Improvement	Competency				ADVANCED - Evidence of Strength			
	Knowledge and Understanding <ul style="list-style-type: none"> •Ability to express knowledge by answering questions and demonstrating skills •Ability to explain and make connections between knowledge concepts 							
	Beginning	Developing	Achieving	Exemplary				
	Communication <ul style="list-style-type: none"> • Clearly and concisely communicates scientific ideas and information, using appropriate scientific language and conventions 							
	Beginning	Developing	Achieving	Exemplary				

Generic Rubric Template:

CONCERNS - Areas for Improvement	Competency				ADVANCED - Evidence of Strength			
	Beginning	Developing	Achieving	Exemplary				
	Beginning	Developing	Achieving	Exemplary				

Assessment Categories

Knowledge and Understanding

- Ability to express knowledge by answering questions and demonstrating skills
 - Ability to explain and make connections between knowledge concepts
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Questioning

- Makes and records accurate and precise observations
- Asks a testable question that can be answered through scientific inquiry
- Makes multiple predictions for an outcome
- Formulates multiple hypotheses

Procedure and Evidence

- Plans and uses a variety of investigation methods and materials to safely collect reliable data
 - Performs experiments using dependent and independent variables
 - Accurately collects and records data using a variety of tools
 - Finds and uses data from a variety of reliable sources
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Analyzing and Evaluating

- Seeks, analyzes, and represents patterns and relationships among variables
 - Draws conclusions consistent with data
 - Evaluates experimental methodology and sources of error and their impact on data
 - Identifies bias and evaluates validity of data in primary and secondary sources
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Perspectives and Ethics

- Evaluates social, ethical, and environmental implications in investigations
- Considers perspectives relevant to a given context and/or place
- Applies First Peoples perspectives and knowledge as sources of information

Communication

- Creates an effective model to describe a phenomenon
 - Clearly and concisely communicates scientific ideas and information
 - Expresses and reflects on place through a variety of methods
 - Provides supportive and constructive feedback during collaborative planning, sharing, and reflection
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