	0 Not Yet Present	Benchmark 1	Milestone 2	Milestone 3	Capstone 4
Research, and/or Views	to or recognition of known sources, views and content in the discipline.	representing limited points of view/approaches and develops simple ideas in	relevant sources representing limited points of view/approaches and develops appropriate ideas through most of the work.	Synthesizes in-depth information from appropriate and relevant sources representing various points of view & approaches and explores compelling ideas throughout the work.	Synthesizes in-depth information from appropriate and relevant sources and compelling content, that represents various points of view & approaches to illustrate mastery of the subject.
	Demonstrates no understanding of approaches used in the discipline.	is not organized and/or is unrelated to focus.	but the organization is not effective in revealing	Organizes evidence/sources to reveal important patterns, differences, or similarities related to focus.	Organizes and synthesizes evidence/sources to reveal insightful patterns, differences, or similarities related to focus.
	Issue/ problem to be considered critically is stated without clarification or description.	-	but description leaves some terms undefined, ambiguities unexplored, boundaries	described, and clarified so	Issue/ problem to be considered critically is stated clearly and described comprehensively, delivering all relevant information necessary for full understanding.
investigate a point of view or conclusion	Information is taken from source(s) without any interpretation/ evaluation. Viewpoints of experts are taken as fact, without question.	Information is taken from source(s) with minimal interpretation/ evaluation. Viewpoints of experts are taken as fact, with limited questioning.	Information is taken from source(s) with some interpretation/ evaluation, but not enough to develop a coherent analysis or synthesis.	Information is taken from source(s) with enough interpretation/ evaluation to develop a coherent analysis or synthesis. Viewpoints of experts are subject to questioning.	Information is taken from source(s) with enough
outcomes (implications and consequences)	Conclusion is not tied to the information discussed; related outcomes (consequences and implications) are oversimplified.	Conclusion is inconsistently tied to some of the information discussed; related outcomes (consequences and implications) minimally simplified.	information is chosen to fit the desired conclusion); some related outcomes (consequences and	Conclusion is logically tied to a range of information, including opposing viewpoints; related outcomes (consequences and implications) are identified clearly.	Conclusions and related outcomes (consequences and implications) are logical and reflect student's informed evaluation and ability to place evidence and perspectives discussed in priority order.
Influence of Context and Assumptions	Shows little emerging awareness of present assumptions (sometimes	Shows an emerging awareness of present assumptions. Begins to	Questions some	Identifies own and others' assumptions and several	Thoroughly (systematically and methodically) analyzes own and others' assumptions

assumptions). Limited ability	 position. May be more	presenting a position.	and carefully evaluates the relevance of contexts when
to identify some contexts when presenting a position.	aware of others' assumptions than one's own (or vice versa).		presenting a position.

Adapted from AAC&U's VALUE rubrics - inquiry analysis and critical thinking

	0 Not Yet Present	Benchmark 1	Milestone 2	Milestone 3	Capstone 4
		minimally stated without clarification or description.	but description leaves some terms undefined, ambiguities unexplored, boundaries	Issue/ problem to be considered critically is stated, described, and clarified so that understanding is not seriously impeded by omissions.	Issue/ problem to be considered critically is stated clearly and described comprehensively, delivering all relevant information necessary for full understanding.
view or conclusion	taken as fact, without		· ·	Information is taken from source(s) with enough interpretation/ evaluation to develop a coherent analysis or synthesis. Viewpoints of experts are subject to questioning.	Information is taken from source(s) with enough interpretation/ evaluation to develop a comprehensive analysis or synthesis. Viewpoints of experts are questioned thoroughly.
outcomes (implications and consequences)	information discussed; related outcomes (consequences and implications) are oversimplified.	information discussed; related outcomes (consequences and implications) minimally	information (because information is chosen to fit the desired conclusion); some related outcomes (consequences and	clearly.	Conclusions and related outcomes (consequences and implications) are logical and reflect student's informed evaluation and ability to place evidence and perspectives discussed in priority order.
Knowledge of cultural Worldview frameworks	important to members of another culture in relation to its history, values, politics communication styles,	understanding of the complexity of elements important to members of another culture in relation to its history, values, politics communication styles,	another culture in relation to its history, values, politics communication styles,	its history, values, politics, communication styles,	Demonstrates sophisticated understanding of the complexity of elements important to members of another culture in relation to its history, values, politics, communication styles, economy, or beliefs and practices.

Empathy			Identifies components of other cultural perspectives but responds in all situations	Recognizes intellectual and emotional dimensions of more than one worldview	Interprets intercultural experience from the perspectives of own and
	wondview.	own cultural wondview.	which own worldview.	and sometimes uses more than one worldview in	more than one worldview and demonstrates ability to act in a supportive manner that recognizes the feelings of another cultural group.
for Writing Includes	and to the assigned tasks(s)	attention to context, audience, purpose, and to the assigned tasks(s) (e.g., expectation of instructor or self as audience).	Demonstrates awareness of context, audience, purpose, and to the assigned tasks(s) (e.g., begins to show awareness of audience's perceptions and assumptions).	Demonstrates adequate consideration of context, audience, and purpose and a clear focus on the assigned task(s) (e.g., the task aligns with audience, purpose, and context).	Demonstrates a thorough understanding of context, audience, and purpose that is responsive to the assigned task(s) and focuses all elements of the work.
	Uses appropriate and relevant content to develop simple ideas in no parts of the work.	Uses appropriate and relevant content to develop simple ideas in some parts of the work.	Uses appropriate and relevant content to develop and explore ideas through most of the work.	shape the whole work.	Uses appropriate, relevant, and compelling content to illustrate mastery of the subject, conveying the writer's understanding, and shaping the whole work.
Genre and Disciplinary Conventions Formal and informal rules inherent in the expectations for writing in particular forms and/or academic fields (please see glossary).	for basic organization and presentation.	Attempts to use a consistent system for basic organization and presentation.	Follows expectations appropriate to a specific discipline and/or writing task(s) for basic organization, content, and presentation	particular to a specific discipline and/or writing task(s), including	Demonstrates detailed attention to and successful execution of a wide range of conventions particular to a specific discipline and/or writing task (s) including organization, content, presentation, formatting, and stylistic choices

Adapted from AAC&U's VALUE rubrics – critical thinking, reading, writing, intercultural knowledge

	0 Not Yet Present	Benchmark 1	Milestone 2	Milestone 3	Capstone 4
Diversity of Communities and Cultures	a one-sided view. Is indifferent or resistant to	own attitudes and beliefs are different from those of other cultures and communities. Exhibits some curiosity about what can be learned from	different from those of other cultures and communities. Exhibits little curiosity about	different from those of other cultures and communities. Exhibits curiosity about what can be learned from diversity	working within and learning from diversity of communities and cultures.
Analysis of Knowledge	and to one's own	(facts, theories, etc.) from one's own academic study/ field/ discipline that is relevant to civic engagement and to one's own participation in civic life,	knowledge (facts, theories, etc.) from one's own academic study/ field/ discipline to civic engagement and to tone's own participation in civic life,	discipline making relevant connections to civic engagement and to one's	Connects and extends knowledge (facts, theories, etc.) from one's own academic study/ field/ discipline to civic engagement and to one's own participation in civic life, politics, and government.
Civic Identity and Commitment	Provides little evidence of her/ his experience in civic- engagement activities and does not connect experiences to civic identity.		or course requirements rather than from a sense of civic identity.	experience in civic- engagement activities and describes what she/ he has learned about her or himself as it	Provides evidence of experience in civic- engagement activities and describes what she/ he has learned about her or himself as it relates to a reinforced and clarified sense of civic identity and continued commitment to public action.
Civic Communication	Does not communicate in civic context, showing ability to do one of the following: express, listen, and adapt ideas and messages based on others' perspectives.	one of the following: express, listen, and adapt ideas and	context, showing ability to do more than one of the following: express, listen, and adapt ideas and messages	to do all of the following:	Tailors communication strategies to effectively express, listen, and adapt to others to establish relationships to further civic action.

Civic Action and Reflection	Has <i>no experience</i> with some civic activities and shows little understanding of their aims or effects and no commitment to future action.	Has <i>experimented</i> with some civic activities but shows little internalized understanding of their aims or effects and little commitment to future action.	civically focused actions and begins to reflect or describe how these actions may benefit individual(s) or communities.	Demonstrates independent experience and <i>team</i> <i>leadership of</i> civic action, with reflective insights or analysis about the aims and accomplishments of one's actions.	Demonstrates independent experience and <i>shows</i> <i>initiative in team leadership</i> of complex or multiple civic engagement activities, accompanied by reflective insights or analysis about the aims and accomplishments of one's actions.
Civic Contexts/Structures	Does not experiment with civic contexts or structures.	contexts and structures, tries out a few to see what fits.	to <i>participate in</i> civic contexts and structures.	Demonstrates ability and commitment to work actively within community contexts and structures to achieve a civic aim.	Demonstrates ability and commitment to collaboratively work across and within community contexts and structures to achieve a civic aim.
Understanding Different Ethical Perspectives/ Concepts	No major theories named.		and can explain the basics of	Names and explains both the basics and some details of the theories.	Accurately presents the theories in depth.
Application of Ethical Perspectives/ Concepts	No ethical concepts applied to ethical question and no examples used.		to new examples with some inaccuracies.	Applies ethical perspectives/ concepts to a new example but fails to fully consider implications.	Applies ethical perspectives/ concepts to a new example and can fully consider implications.

Adapted from AAC&U's VALUE rubrics - civic engagement & ethical reasoning

Natural Science/Natural Sciences Alternatives Rubric

		Benchmark 1		Milestone 3	Capstone 4
Explanation of issues	not clearly stated.	Issue/ problem to be considered critically is stated without clarification or description.	but description leaves some terms undefined, ambiguities unexplored, boundaries undetermined, and/ or backgrounds unknown.	seriously impeded by omissions.	clearly and described comprehensively, delivering all relevant information necessary for full understanding.
Evidence Selecting and using information to investigate a point of view or conclusion	Information is not analyzed or interpreted.	Information is taken from source(s) without any interpretation/ evaluation. Viewpoints of experts are taken as fact, without question.	-	Information is taken from source(s) with enough interpretation/ evaluation to develop a coherent analysis or synthesis. Viewpoints of experts are subject to questioning.	Information is taken from source(s) with enough interpretation/ evaluation to develop a comprehensive analysis or synthesis. Viewpoints of experts are questioned thoroughly.
Influence of context and assumptions	Is unaware of assumptions or contexts.	Shows an emerging awareness of present assumptions (sometimes labels assertions as assumptions). Begins to identify some contexts when presenting a position.		assumptions and several relevant contexts when	Thoroughly (systematically and methodically) analyzes own and others' assumptions and carefully evaluates the relevance of contexts when presenting a position.
Student's position (perspective, thesis/hypothesis)	Position is unclear.	Specific position (perspective, thesis/ hypothesis) is stated, but is simplistic and obvious.	Specific position (perspective, thesis/ hypothesis) acknowledges different sides of an issue.	Specific position (perspective, thesis/ hypothesis) takes into account the complexities of an issue. Others' points of view are acknowledged within position (perspective, thesis/ hypothesis).	Specific position (perspective, thesis/ hypothesis) is imaginative, taking into account the complexities of an issue. Limits of position (perspective, thesis/ hypothesis) are acknowledged. Others' points of view are synthesized within position (perspective, thesis/ hypothesis).

Conclusions and related No conclusion is made.	Conclusion is inconsistently	Conclusion is logically tied to	Conclusion is logically tied to	Conclusions and related
outcomes (implications	tied to some of the	information (because	a range of information,	outcomes (consequences and
and consequences)	information discussed;	information is chosen to fit	including opposing	implications) are logical and
	related outcomes	the desired conclusion); some	viewpoints; related outcomes	reflect student's informed
	(consequences and	related outcomes	(consequences and	evaluation and ability to
	implications) are	(consequences and	implications) are identified	place evidence and
	oversimplified.	implications) are identified	clearly.	perspectives discussed in
		clearly.		priority order.

Quantitative Reasoning; Science, Math, Technology Assessment Rubric

	0 Not Yet Present	Benchmark 1	Milestone 2	Milestone 3	Capstone 4
Interpretation	Makes little attempt to	Attempts to explain	Provides somewhat accurate	Provides accurate	Provides accurate
Ability to explain information presented	explain information presented in mathematical	information presented in mathematical forms, but	presented in mathematical	explanations of information presented in mathematical	explanations of information presented in mathematical
in mathematical forms (e.g., equations, graphs, diagrams, tables, words)	forms, and draws incorrect conclusions about what the information means.	perhaps by confusing positive and negative trends.	to computations or units. For instance, accurately explains trend data shown in a graph, but may miscalculate the slope of the trend line.		forms. Makes appropriate inferences based on that information. For example, accurately explains the trend data shown in a graph and makes reasonable predictions regarding what the data suggest about future events.
Representation Ability to convert relevant information into various mathematical forms (e.g., equations, graphs, diagrams, tables, words)	Unable to complete conversion of information but resulting mathematical portrayal is inappropriate or inaccurate.	Completes conversion of information but resulting mathematical portrayal is inappropriate or inaccurate.	Completes conversion of information but resulting mathematical portrayal is only partially appropriate or accurate.		Skillfully converts relevant information into an insightful mathematical portrayal in a way that contributes to a further or deeper understanding.
Calculation	Calculations are attempted but are both unsuccessful and are not comprehensive.	Calculations are attempted but are often unsuccessful and are not comprehensive.	Calculations attempted are either unsuccessful or represent only a portion of the calculations required to comprehensively solve the problem.	Calculations attempted are essentially all successful and sufficiently comprehensive to solve the problem.	Calculations attempted are essentially all successful and sufficiently comprehensive to solve the problem. Calculations are also presented elegantly (clearly, concisely, etc.)

Application / Analysis Ability to make judgments and draw appropriate conclusions based on the quantitative analysis of data, while recognizing the limits of this analysis	of data as the basis for	of data as the basis for	of data as the basis for workmanlike (without	of data as the basis for competent judgments, drawing reasonable and	Uses the quantitative analysis of data as the basis for deep and thoughtful judgments, drawing insightful, carefully qualified conclusions from this work.
Assumptions Ability to make and evaluate important assumptions in estimation, modeling, and data analysis	Unable to describe assumptions.	Attempts to describe assumptions.	assumptions.	compelling rationale for why assumptions are appropriate.	Explicitly describes assumptions and provides compelling rationale for why each assumption is appropriate. Shows awareness that confidence in final conclusions is limited by the accuracy of the assumptions.
Communication <i>Expressing</i> <i>quantitative evidence</i> <i>in support of the</i> <i>argument or purpose</i> <i>of the work (in terms</i> <i>of what evidence is</i> <i>used and how it is</i> <i>formatted,</i> <i>presented, and</i> <i>contextualized)</i>	Limited in the ability to present an argument for which quantitative evidence is pertinent, and does not provide adequate explicit numerical support.	Presents an argument for which quantitative evidence is pertinent, but does not provide adequate explicit numerical support. (May use quasi-quantitative words such as "many," "few," "increasing," "small," and the like in place of actual quantities.)	argument or purpose of the work.	in connection with the argument or purpose of the work, though data may be	Uses quantitative information in connection with the argument or purpose of the work, presents it in an effective format, and explicates it with consistently high quality.

Adapted from AAC&U's VALUE rubrics – quantitative literacy

	0 Not Yet Present	Benchmark 1	Milestone 2	Milestone 3	Capstone 4
	to or recognition of known	Presents information from irrelevant sources representing limited points of view/approaches and develops simple ideas in some parts of the work.	relevant sources representing limited points of view/approaches and	and relevant sources representing various points of view & approaches and explores compelling ideas throughout the work.	Synthesizes in-depth information from appropriate and relevant sources and compelling content, that represents various points of view & approaches to illustrate mastery of the subject.
	Issue/ problem to be considered critically is stated without clarification or description.	Issue/ problem to be considered critically is minimally stated without clarification or description.	but description leaves some terms undefined, ambiguities	Issue/ problem to be considered critically is stated, described, and clarified so that understanding is not seriously impeded by omissions.	Issue/ problem to be considered critically is stated clearly and described comprehensively, delivering all relevant information necessary for full understanding.
Analysis	Demonstrates no understanding of approaches used in the discipline.		but the organization is not	Organizes evidence/sources to reveal important patterns, differences, or similarities related to focus.	Organizes and synthesizes evidence/sources to reveal insightful patterns, differences, or similarities related to focus.
information to investigate a point of	Information is taken from source(s) without any interpretation/ evaluation. Viewpoints of experts are taken as fact, without question.	Information is taken from source(s) with minimal interpretation/ evaluation. Viewpoints of experts are taken as fact, with limited questioning.	Information is taken from source(s) with some interpretation/ evaluation, but not enough to develop a coherent analysis or synthesis. Viewpoints of experts are taken as mostly fact, with little questioning.	Information is taken from source(s) with enough interpretation/ evaluation to develop a coherent analysis or synthesis. Viewpoints of experts are subject to questioning.	Information is taken from source(s) with enough interpretation/ evaluation to develop a comprehensive analysis or synthesis. Viewpoints of experts are questioned thoroughly.
Reports information effectively and responsibly, and Making Informed Judgments	Does not communicate information from sources.		Communicates and organizes information from sources. The information is not yet applied, so the intended purpose is not fully achieved.	and applies information from sources. Intended purpose is achieved.	

genres, contexts, and	related to a position or problem.	contexts when presenting a position or identifying a problem. Issue to be	Mentions relevant contexts when presenting a position or identifying a problem, but not enough to reflect a coherent understanding.	Coherently and critically examines relevant contexts when presenting a position or identifying a problem.	Thoroughly (systematically, methodically and critically) examines the relevance of contexts when presenting a position or identifying a problem.
Textual Comprehension	understanding of appropriate vocabulary or ability to paraphrase or summarize		Evaluates how textual features contribute to the author's message; draws basic inferences about context and purpose of text.	inferences about the author's	Recognizes possible implications of the text for contexts, perspectives, or issues beyond the assignment or beyond the author's explicit message.
		Shows basic awareness of own cultural rules.	ldentifies own cultural rules and biases.	Recognizes new perspectives about own cultural rules and biases.	Recognizes how experiences shape cultural rules, how to respond to cultural biases, and can experience a shift of self-description.
Skills/Application Empathy	Does not view the cultural experience of others or hold a cognitive worldview.	Views the cultural experiences of others through own cognitive worldview.	Identifies the cognitive and emotional dimensions of other cultural perspectives with own worldview.	Recognizes that both cognitive <i>and</i> emotional dimensions of other cultural perspectives are necessary in supporting other cultural groups.	Effectively supports another cultural group by applying cognitive and emotional dimensions to their cultural experiences.
Skills/Application Ethical Issue Recognition		Recognizes basic ethical issues.	Recognizes basic ethical issues and some cross- relationships.	Recognizes ethical issues in context OR can recognize cross-relationships among the issues.	Recognizes ethical issues in context AND can recognize cross-relationships among the issues.

Adapted from AAC&U's VALUE rubrics – civic engagement & ethical reasoning

	0 Not Yet Present	Benchmark 1	Milestone 2	Milestone 3	Capstone 4
knowledge	understanding of U.S. culture, including its diverse elements, and how this has shaped history, politics, economy, social relations, forms of expression and communication, values, or	including its diverse elements, and how this has	including its diverse elements, and how this has	including its diverse elements, and how this has	Demonstrates sophisticated understanding of U.S. culture, including its diverse elements, and how this has shaped history, politics, economy, social relations, forms of expression and communication, values, or beliefs and practices
and empathy	ability to imagine and empathize with the perspective of people from past eras or other cultures and to incorporate this understanding into the analysis.	to imagine and empathize	the perspective of people from past eras or other cultures and to incorporate this understanding into the analysis.	ability to imagine and empathize with the perspective of people from past eras or other cultures and to incorporate this understanding into the analysis.	Demonstrates impressive ability to imagine and empathize with the perspective of people from past eras or other cultures and to incorporate this understanding into the analysis. Synthesizes in-depth
Research, and/or Views	to or recognition of known sources, views and content in the discipline.	irrelevant sources	relevant sources representing limited points of view/approaches and develops appropriate ideas through most of the work.		information from appropriate and relevant sources and compelling content, that represents various points of view & approaches to illustrate mastery of the subject.
Analysis	Demonstrates no understanding of approaches used in the discipline.	is not organized and/or is	Organizes evidence/sources, but the organization is not effective in revealing important patterns, differences, or similarities.	Organizes evidence/sources to reveal important patterns, differences, or similarities related to focus.	Organizes and synthesizes evidence/sources to reveal insightful patterns, differences, or similarities related to focus.
	understanding of appropriate vocabulary or ability to				Recognizes possible implications of the text for contexts, perspectives, or issues beyond the assignment or beyond the author's explicit message.

	5	and/or used inappropriately	The information is not yet	and applies information from sources. Intended purpose is achieved.	
Writes in a variety of genres, contexts, and disciplines, & identifies problems	related to a position or problem.	contexts when presenting a position or identifying a problem. Issue to be	when presenting a position or identifying a problem, but	examines relevant contexts when presenting a position or identifying a problem.	Thoroughly (systematically, methodically and critically) examines the relevance of contexts when presenting a position or identifying a problem.