Classroom Instructional Material Alignment Tool - Noncore

The purpose of this document is to assist teachers in determining alignment of their Instructional materials being used in the classroom. Effective instructional materials are learning resources used to help students acquire essential knowledge, skills, and abilities as outlined in the standards. This includes print and non-print materials. It may also provide evidence to support your discussion about standards and resources as part of your evaluation.

Title: + Architecture Author(s): PLTW	Publisher(s): PLTW	Grade Level: 9-12	-4 . 4 0
Title: Harchitecture Author(s): PLTW Standard(s) addressed in this instructional management of the control of	aterial: CCL Anchor Sas cts 6-12, Archifetive ct upon and then determine	dards for Readiz + Writh al + Civil Engreens & e if the instructional material	n Standards tov Standards meets each
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I. Alignment to the Nevada Academic Content Standards (NVACS)- NON NEGOTIABLES

Criteria	Meets Criteria			Evidence
	Yes	No	N/A	Evidence
Targets a set of grade-level Nevada Academic Content Standards (NVACS).	X			
Selects text(s) that measure within the grade-level text complexity band and are of sufficient quality and scope for the stated purpose.	X			
Other:				

II. Key Shifts in the Nevada Academic Content Standards (NVACS)

Mee	ts Cr	iteria	Evidence	
Yes	No	N/A	Evidence	
X				
X				
		x		
X				
x				
x				
	Yes x x x	Yes No x x x	X X X	

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III. Assessment

Criteria		ets Cri	teria	Evidence	
		Yes No N/A		Evidence	
Assesses various modes, including a range of pre-, formative, summative, performance tasks, and self-assessment measures.	X			Project-based rubrics provided; teacher created pre-, formative, self-assessment	
Includes aligned rubrics, answer keys and scoring guidelines that provide sufficient guidance for interpreting student understanding and performance. Other:			X		

IV. Instructional Supports

Criteria	Meets Criteria			Evidence	
		No	N/A	Evidence	
Provides for authentic learning, application of literacy skills, student-directed inquiry, analysis, evaluation, and/or reflection.	X				
Integrates targeted instruction in such areas as grammar and conventions, writing strategies, discussion rules, and all aspects of foundational reading.			X		
Provides appropriate level and type of scaffolding, differentiation, intervention and support for all learners. • Supports diverse cultural and linguistic backgrounds, interests and styles. • Provides extra supports for students working below grade level. • Provides extensions for students with high interest or working above grade level.	х			Instructional supports include teacher flexibility to supplement curriculum based on student need, interest, and learning style.	
Other:					

Summary/Reflection:

1. Alignment to Standards: College and Career Readiness Anchor Standards for Reading and Writing, Grades 6-12; Standards for Literacy in Science and Technical Skills, grades 6-12

Upon review, the PLTW Civil Engineering and Architecture curriculum addresses and supports student learning needs with regard to the College and Career Readiness Anchor Standards for Reading and Writing as detailed in the Standards for Literacy in Science and Technical Skills, grades 6-12. Of particular note was the curriculum's Reading focus on Craft and Structure, Integration of Knowledge and Ideas, and Key Ideas and Details. In addition, of particular note was the curriculum's Writing focus on Research to Build and Present Knowledge.

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2. Alignment to Standards: Architectural and Engineering Standards

PLTW Civil Engineering and Architecture is the third year course in the Architectural and Civil Engineering Program of Study. PLTW Civil Engineering and Architecture is created to provide learning opportunities for students in the areas of Computational and Analytical Skills, Design Experience, and Tools and Software specific to Civil Engineering and Architecture. Course Units-Overview of Civil Engineering and Architecture, Residential Design, Commercial Applications, and Commercial Building Design Problem-align with Architectural and Civil Engineering Standards. Notable direct alignment includes:

- a. Content Standard 2: Assess the impact of Engineering on Society
 - i. Performance Standard 2.1 Describe the History of Engineering
 - ii. Performance Standard 2.2 Investigate Related Careers in Engineering
- b. Content Standard 3: Interpret the Engineering Design Process
 - i. Performance Standards 3.1.1-3.1.5
- c. Content Standard 4.0: Construct Engineering Documentation
- d. Content Standard 5.0: Apply Fundamental Power Systems and Energy Principles
- e. Content Standard 9.0: Apply Residential Design Concepts
- f. Content Standard 10.0: Analyze Commercial Application

In addition, concepts and lessons are aligned with the Science, Technology, Engineering and Mathematics Career Cluster, the Engineering and Technology Career Pathway (ST-ET) as outlined in the Crosswalks of Architectural and Engineering Standards, the Common Career Technical Core and Common Core Mathematical Practices (p. 30-31, Nevada CTE Standards, Architectural and Civil Engineering).

3. Alignment to Standards: Employability Skills for Career Readiness

PLTW Introduction to Engineering addresses and supports student learning needs with regard to the Standards for Employability Skills for Career Readiness. Of particular note were:

- a. Performance Standard 1: Demonstrate Employability skills for Career Readiness
 - i. 1.1.1-Demonstrate a positive work ethic by coming to work every day on time, a willingness to take direction, and motivation to accomplish the task at hand.
 - ii. 1.1.3-Demonstrate teamwork skills by contributing to the success of a team, assisting others, and requesting help when needed.
 - iii. 1.1.6-Demonstrate conflict-resolution skills by negotiating diplomatic solutions to interpersonal and workplace issues.
- b. Performance Standard 2: Demonstrate Professional Knowledge and Skills
 - i. 1.2.2-Demonstrate effective reading and writing skills by reading and interpreting workplace documents and writing clearly.
 - ii. 1.2.3-Demonstrate critical-thinking skills by analyzing and resolving problems that arise in completing assigned tasks.
 - iii. 1.2.4-Demonstrate healthy behaviors and safety skills by following safety guidelines and managing personal health.
 - iv. 1.2.8-Demonstrate time on task, and resource management skills by organizing and implementing a productive plan of work.

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Overall Clas	ssroom	Instructional N	flaterial Meets	s Criteria Rat	ing: _xYes	sNo	N/A