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SECTION 1: INTRODUCTION TO NV ELD STANDARDS AND INSTRUCTIONAL SUPPORTS FOR DEVELOPING THE LANGUAGE OF MATH GRADES 6-8

1A. Purpose and Organization

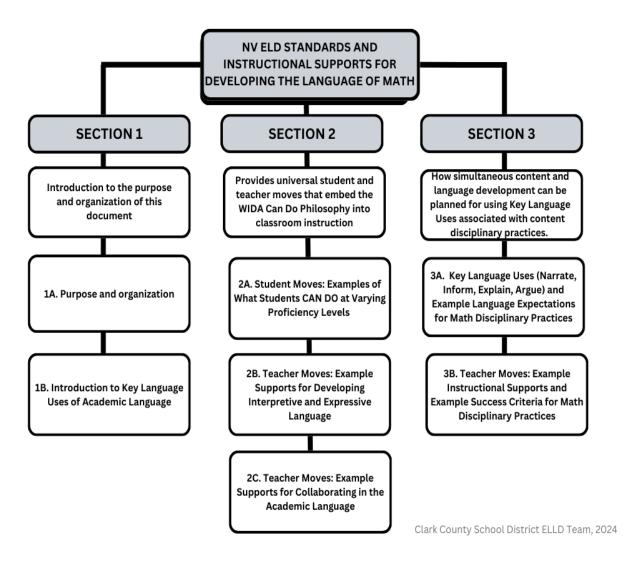
Purpose

The purpose of this document is to provide instructional resources for educators to engage their students in *English Language Development Standard* 3: English language learners communicate information, ideas, and concepts necessary for academic success in the content area of mathematics.

In 2012 the Nevada Department of Education adopted the WIDA ELD Standards now also referred to as the Nevada ELD Standards. **The purpose of the Nevada (NV) English Language Development (ELD) Standards and Instructional Supports documents** is to provide content teachers, EL educators, and school leaders with instructional tools to be used to successfully integrate the Nevada English Language Development (ELD) standards with content area instruction leading to student mastery of the Nevada Academic Content Standards (NVACs) for college/career readiness and academic English proficiency. With the use of these tools, educators will be able to make clear instructional connections between the content standards, content disciplinary practices, and the ELD standards. The mathematical practices identified in this document are based on the Nevada Academic Content Standards and the Common Core State Standards (CCSS) for Mathematics. For more information about the overview, purpose, and theoretical foundations for using the Nevada English Language Development (ELD) Standards and Instructional Supports documents see the <u>Nevada</u> <u>ELD Standards and Instructional Supports Overview</u>.

Organization

The Nevada ELD Standards and Instructional Supports for Developing the Language of Math Grades 6-8 document is organized into 3 sections:



Section 1 is the introduction to the purpose and organization of this document.

Section 1: INTRODUCTION TO NV ELD STANDARDS AND INSTRUCTIONAL SUPPORTS FOR DEVELOPING THE LANGUAGE OF MATH GRADES 6-8

A. Purpose and Organization

B. Introduction to Key Language Uses of Academic Language

Section 2 provides universal student and teacher moves that embed the WIDA Can Do Philosophy into classroom instruction.

Section 2 of the document provides descriptors illustrating what students "Can Do" with academic language at various English Language Proficiency (ELP) levels: Entering/Emerging (Level 1-2), Developing/Expanding (Level 3-4) and Bridging/Reaching (Level 5-6) specific to the grade-level cluster. The section also provides instructional practices and strategies called "Teacher Moves" which are research-based, actionable steps that all teachers can take to support the simultaneous development of academic language and content for multilingual learners at various proficiency levels of English language development. For more descriptions of the ELD Strategies identified in Sections 2 and 3, view the <u>GO TO Strategies document</u> from the CAL website.

Section 2: CAN DOS AND EXAMPLE INSTRUCTIONAL SUPPORTS FOR DEVELOPING THE LANGUAGE OF MATH GRADES 6-8

- A. Student Moves: Examples of What Students Can Do at Varying Proficiency Levels
- B. Teacher Moves: Example Supports for Developing Interpretive and Expressive Language
- C. Teacher Moves: Example Supports for Collaborating in the Academic Language

Section 3 addresses how simultaneous content and language development can be planned for using Key Language Uses associated with content disciplinary practices.

Section 3 provides a table containing exemplars (taken from WIDA 2020) that model for educators the connection of prominent Key Language Uses and Language Expectations to the 6-8 Content Disciplinary Practices of Math. "Teacher Moves" relevant to the content area disciplinary practice are provided. Also included in the section are exemplars of student "Success Criteria", examples of how students will be able to demonstrate their learning of language and content at different language proficiency levels.

Section 3: INSTRUCTIONAL GUIDANCE FOR MATH DISCIPLINARY PRACTICES GRADES 6-8

- Snapshot Key Language Uses from the WIDA 2020 ELD Standards Framework
- A. Key Language Uses (Inform, Explain, Argue) and Example Language Expectations for Math Disciplinary Practices
 - Prominent Key Language Uses for Math Grades 6-8
 - Language Expectations for Math Disciplinary Practices
- B. Teacher Moves: Example Instructional Supports and Example Success Criteria for Math Disciplinary Practices
 - Practice 1: Make sense of problems and persevere in solving them
 - Practice 2: Reason abstractly and quantitatively
 - Practice 3: Construct viable arguments and critique the reasoning of others
 - Practice 4: Model with mathematics
 - Practice 5: Use appropriate tools strategically
 - Practice 6: Attend to precision
 - Practice 7: Look for and make use of structure
 - Practice 8: Look for and express regularity in repeated reasoning

1B. Introduction to Key Language Uses of Academic Language

The <u>WIDA ELD Standards Framework, 2020 Edition</u> maintains the five original ELD standards of the 2012 document and, importantly, operationalizes the WIDA Big Ideas that language development and content learning are to be integrated into assets-based instruction that takes place in the context of a learning environment responsive to cultural and linguistic diversity. These Big Ideas are referred to as the WIDA Can Do Philosophy. Instruction is facilitated by the inclusion of the following components of language which form a common framework within which multilingual students understand academic language: 1) **Interpretive** (listening, reading, viewing) and **Expressive** (speaking, writing, representing) language, 2) **Key Language Uses**, prominent language uses across content area disciplines, 3) **Language Expectations**, goals for content-driven language learning, and 4) **Language Features**, a continuum of language development indicators.

Key Language Uses (KLUs) of academic language in the core content areas were identified in WIDA 2020 based on reviews of literature and a language analysis of college and career readiness standards. Throughout this document the KLUs provide a focus for instructional supports. See table below for a description of the KLUs.

KEY LANGUAGE USES	KEY LANGUAGE USES DESCRIPTION
NARRATE	Highlights language to convey real or imaginary experiences through stories and histories. Example tasks for the Key Use of Narrate include telling or summarizing stories, sharing past experiences, recounting an incident, or to chronicle a report.
INFORM	Highlights language to provide factual information, to tell, give knowledge, apprise, notify, to make aware of ideas, actions, or phenomena. Example tasks for the Key Use of Inform include defining, describing, comparing, contrasting, categorizing, or classifying concepts, ideas, or phenomena.
EXPLAIN	Highlights language to give an account for how things work or why things happen to clarify ideas, actions, or phenomena. Example tasks for the Key Use of Explain include interpreting, elaborating, illustrating, simplifying ideas, actions, or phenomena.
ARGUE	Highlights language to justify claims using evidence and reasoning, constructing arguments with evidence, or stating preferences or opinions. Example tasks for the Key Use of Argue include advancing or defending an idea or solution, changing the audience's point of view, or evaluating an issue.

SECTION 2: CAN DOS AND EXAMPLE INSTRUCTIONAL SUPPORTS FOR DEVELOPING THE LANGUAGE OF MATH GRADES 6-8

Two types of communication modes are incorporated into the WIDA English Language Development Standards Framework: interpretive mode (listening, reading, and viewing) and expressive mode (speaking, writing, and representing). Consistent with the WIDA Can Do Descriptors, the table below provides examples of the academic tasks multilingual learners can successfully carry out in each communication mode. These Student Moves were based on the <u>WIDA K-12 Can Do Descriptors, Key Uses Edition</u>.

2A. Student Moves: Examples of What Students Can Do at Varying Proficiency Levels

Communication Modes	Entering/Emerging (Levels 1-2)	Developing/Expanding (Levels 3-4)	Bridging/Reaching (Levels 5-6)
	 listen to oral commands to complete mathematical tasks to indicate position or location. 	 match specific language of complex graphs, equations or coordinate planes with figures and detailed oral descriptions. 	 interpret and attend to the language of content-related topics used during direct instruction and
Interpretive:	 make meaning of direct instruction that includes simple sentences and repetition of academic language to understand mathematical concepts. 	 compare/contrast graphs, equations or coordinate planes from figures and oral scenarios that include some technical language. 	 by peers. analyze techniques, models or equations from oral reading of grade-level material.
Listening, Reading, & Viewing	 make meaning of pictures, models, phrases, or short sentences to understand mathematical concepts. match words or phrases provided 	 make meaning of academic language from direct instruction or written information supported by visuals, graphics, or mentor text. 	 apply technical language related to mathematical concepts to grade-level oral problem-solving scenarios.
	orally and in a word bank to pictures or objects representing mathematical concepts.	directions with peer support in pairs or small groups.	 from grade-level text, make connections between real-world problem-solving situations and
		 sequence written steps in mathematical processes. 	mathematical concepts.evaluate the soundness of
		 interpret content-related cause and effect relationships during direct instruction. 	problem-solving strategies presented by peers.
		 match complex oral descriptions to images, graphs, or formulas. 	

With appropriate instructional supports, multilingual learners can...

2A. Student Moves: Examples of What Students Can Do at Varying Proficiency Levels (continued)

With appropriate instructional supports, multilingual learners can...

Communication	Entering/Emerging	Developing/Expanding	Bridging/Reaching
Modes	(Levels 1-2)	(Levels 3-4)	(Levels 5-6)
	 name variables from illustrations and	 present orally in small groups detailed	 analyze and explain functions of one
	notation with support of oral and	content-related information that has	variable in relation to another using
	written modeling.	been rehearsed.	supports such as graphic organizers.
Expressive: Speaking, Writing, & Representing	 relate functions of two variables from illustrations and notation. produce elements of equations or formulas from word/phrase banks and models (e.g., labeling diagrams). describe equations or formulas using figures and notation from word/phrase banks and models. identify language of basic components of coordinate planes, graphs or equations from figures and oral statements. identify basic components of multi-dimensional shapes from visually supported words or phrases. 	 connect the sequential, cyclical, or causal relationships of content-related concepts with the support of visuals or graphics. explain mathematical processes and relationships using a variety of transitional words, phrases, and clauses with the support of sentence frames and/or mentor text. give reasons for why or how something works using diagrams, charts, or images. respond in written form to content- related "how" or "why" questions with the support of sentence frames. 	 summarize procedures for solving problems involving formulas and equations using discourse frames and mentor text models. explain mathematical solutions using technical language to explain content-related processes that support claims. present organized ideas and information on content topics including the use of graphics and multimedia.

2B. Teacher Moves: Example Supports for Developing Interpretive and Expressive Language

What general supports can teachers provide to students at different language proficiency levels to interpret or express academic language?

Entering/Emerging	Developing/Expanding	Bridging/Reaching
(Levels 1-2)	(Levels 3-4)	(Levels 5-6)
INSTRUCTIONAL	INSTRUCTIONAL	INSTRUCTIONAL
 Confirm students' prior knowledge of content 	 Confirm students' prior knowledge of content 	 Confirm students' prior knowledge of
topics.	topics.	content topics.
 Build background in key language and concepts 	 Build background in key language and concepts 	 Build background in key language and
using visual aids, simplified language, gestures and	using contextualized vocabulary, collaborative	concepts focusing on academic vocabulary
body language and interactive activities, e.g.	learning, visual that introduce more complex	and idiomatic expressions. Use content
(hands-on, role playing, games) and L1 support.	texts with accompanying audio.	specific texts to build subject knowledge.
 Provide explicit instruction and practice in key 	 Provide explicit instruction and practice in 	 Use Reciprocal Teaching to scaffold
social and instructional vocabulary utilizing plenty	key social and instructional vocabulary.	independent reading.
of visuals such as pictures, real objects, or gestures	 Check comprehension of all students 	
to convey meaning.	frequently.	LANGUAGE
 Give two-step contextualized directions. 	 Use Wait Time. 	 Use complex sentences and discourse
 Restate/rephrase and use Patterned Oral 	 Use varied presentation formats such as role 	starters.
Language routines.	plays.	 Extend content vocabulary with
 Annotate text with non-linguistic representations 	 Model processes with Think Alouds. 	multiple examples and non-
to scaffold comprehension.	 Scaffold oral reporting and oral reports with 	examples.
 Check comprehension of all students frequently. 	student use of note cards and provide time	 Provide opportunities for
• Use Wait Time.	for prior practice with feedback.	translanguaging during the task.
LANGUAGE	LANGUAGE	INTERACTIVE
 Model orally the academic language and specific 	 Model orally the academic language and 	 Structure writing tasks to include
vocabulary.	specific vocabulary.	opportunity for peer feedback.
 Label visuals and objects with target vocabulary. 	 Provide explicit instruction and practice for 	
 Introduce cognates to aid comprehension. 	students to construct the language using	GRAPHIC
 Provide opportunities for translanguaging and 	sentence and discourse starters.	 Ask students to analyze text structure
multilingual support during the task.	 Encourage full sentence responses by 	and select an appropriate Graphic
	asking open ended questions with	Organizer for summarizing.
INTERACTIVE	response sentence stem provided.	 Provide a graphic organizer system (e.g.
 Provide explicit instruction and practice 	 Example: 	Learning Log/Interactive Notebook) for
using Jigsaw Reading to scaffold independent	What additional strategies could be	students to regularly record and process
reading.	used to find the solution to this	key academic vocabulary and content
 Pair students to read one text together. 	problem? An additional strategy that	learning throughout an instructional unit.
 Use Shared Reading. 	could be used is	

Entering/Emerging (Levels 1-2)	Developing/Expanding (Levels 3-4)	Bridging/Reaching (Levels 5-6)
 GRAPHIC Use K-W-L charts before reading. Provide a list of important concepts on a graphic organizer. 	 Require and support the use of academic language with anchor charts and word banks for students to reference. Provide opportunities for translanguaging and multilingual support during the task. 	SENSORY/MEDIA ● Use Video Observation Guides.
 SENSORY/MEDIA Provide explicit instruction and practice for students to construct the language using visual aids. Use physical gestures to accompany directions. Preview the text content with pictures, demos, charts, or experiences. Preview text with a Picture Walk. Provide a vocabulary Word Bank with non- linguistic representations. Annotate text with non-linguistic representations to scaffold comprehension. 	 INTERACTIVE Provide explicit instruction and practice using Jigsaw Reading to scaffold independent reading. Pair students to read one text together. Use Shared Reading GRAPHIC Provide a graphic organizer system for students to regularly record and process key academic and content-specific vocabulary. Provide a list of important concepts on a graphic organizer. Use K-W-L charts before reading. SENSORY/MEDIA Preview the text content with pictures, demos, charts, or experiences. 	

2C. Teacher Moves: Example Supports for Collaborating in the Academic Language

How can teachers provide ongoing opportunities for students to collaborate using academic language? Below are some examples of universal strategies for engaging students in collaborative discourse practices.

Entering/Emerging	Developing/Expanding	Bridging/Reaching
(Levels 1-2)	(Levels 3-4)	(Levels 5-6)
Prior to reading, writing, and discussion, the teacher prepares collaborative discourse structures for students to	Prior to reading, writing, and discussion, the teacher prepares collaborative discourse structures for students to	Prior to reading, writing, and discussion, the teacher prepares collaborative discourse structures for students to
 participate in pair/triad/small group discussions using graphic, interactive, and/or language supports (including L1 as appropriate). use Cloze sentences with a Word Bank. pair students with strategic partners at a higher English proficiency level and/or with the same primary language peer(s). use dialogue structures (e.g.): My turn/ your turn; Partner A/Partner B; Collaborative groups. use Clock Buddies. use Numbered Heads Together. use Think-Pair-Share Squared. Use key sentence frames for pair 	 engage in pair work to prepare questions for discussion using graphic, interactive, and/or language supports as needed. contribute to pair/triad/small group discussions by supporting with examples, asking clarifying questions, and using graphic, interactive, and/or language supports as needed. engage with whole/large group discussions by connecting ideas with supporting details, generating original questions, and using graphic, interactive, and/or language supports as needed. use Think-Pair-Share. repeat and expand their responses and other students' responses in a 	 engage in structured pair work to process and generate ideas. contribute to pair/triad/small group discussions to share individual ideas and compare with other ideas in the group, using graphic, interactive, and/or language supports as needed. engage with whole/large group discussions by generating original questions and/or building on the ideas of others using graphic, interactive, and/or language supports as needed. use oral reporting for summarizing group work. use dialogue structures (e.g.): My turn/your turn; Partner A/Partner B;
 interactions. use dialogue structures (e.g.): My turn/ your turn; Partner A/Partner B; collaborative group roles with sentence 	 collaborative dialogue. use dialogue structures (e.g.): My turn/ your turn; Partner A/Partner B; collaborative groups. 	collaborative groups.build upon their own ideas and those of others.
 frames. build upon their own ideas and those of others using shared L1. 	 build upon their own ideas and those of others. 	

SECTION 3: INSTRUCTIONAL GUIDANCE FOR MATH DISCIPLINARY PRACTICES GRADES 6-8

Snapshot of Key Language Uses from the WIDA 2020 ELD Standards Framework

Key Language Uses—Narrate, Inform, Explain, and Argue—are present across all grade levels and disciplines. Determining Key Language Use is helpful in planning for instructional outcomes and supports. The Snapshots table below provides descriptors of some ways students engage in each Key Language Use throughout grades 6-8.

	Snapshots of Key Language Uses in Grades 6-8
Narrate	 Describe people, objects, and scenes using imagery, metaphors, and other stylistic devices Manipulate pace to bring attention to key points in the narrative Underscore the significance of events Create tension and suspense Interpret and use historical narratives as primary source evidence in constructing arguments
Inform	 Manage information about entities according to their composition, taxonomies, and classifications Identify and describe various relationships among ideas and information Interpret multiple sources of information to develop knowledge before reporting on topics Construct research reports that require multiple sources of factual information
Explain	 Identify, analyze, and give account for causal, consequential, or systems relationships Apply scientific reasoning to show how or why something works Construct explanations using models or representations Use evidence in the construction of scientific explanations
Argue	 Interpret multiple sources of information to develop claims and counterclaims Construct claims and offer them for debate Respond to counterclaims Contextualize and evaluate primary and secondary sources Analyze literary techniques, such as the development of theme and characterization in works of fiction

3A. Key Language Uses (Inform, Explain, Argue) and Example Language Expectations for Math Disciplinary Practices

The Math Key Language Uses in the graphic below are marked with a filled-in circle (•) in the boxes. The half-filled circle and the open circle indicate lesser degrees of prominence of each Key Language Use.

Distribution of Math Key Language Uses in Grades 6-8				
WIDA ELD STANDARD Narrate Inform Explain Argue				
1. Language for Mathematics				
Most Prominent Prominent Present				

Adapted from the WIDA 2020 Standards Framework pp. 290-292

The table below lists the 8 Mathematical Practices from the Nevada Academic Content Standards and provides example Language Expectations for each Prominent and Most Prominent Key Language Use (KLU) of Academic Language associated with WIDA ELD Standard 3 Language for Mathematics. (For a more detailed listing of grade-level Language Expectations to support mastery of content area standards see <u>WIDA English</u> Language Development Standards Framework, 2020 Edition Kindergarten - Grade 12 (wisc.edu) pp. 152-155.)

	KEY LANGUAGE USES			
Math Practices	Inform	Explain	Argue	
1. Make sense of problems and persevere in solving them.	Multilingual learners make sense of problems and persevere in solving them by summarizing their implementation of strategies using first person (I, we) to describe concept, process, or purpose and using connectors to recount steps and express causality (<i>first, next, then,</i> <i>because/so</i>).	Multilingual learners make sense of problems and persevere in solving them by constructing mathematical explanations that explain a mathematical problem and its solution using connectors to recount steps and sequence (first, next, then, because, so) and causal connectors to express reasoning (We took these steps to solve problems with ratios because/so).	See Math Practice 3. Construct viable arguments and critique the reasoning of others.	
2. Reason abstractly and quantitatively.	Multilingual learners reason abstractly and quantitatively by introducing concepts through the use of relating verbs (<i>belong to, are part of, be, have</i>) to define or describe a concept.	Multilingual learners reason abstractly and quantitatively by using abstract, generalized noun groups to add precision (<i>operation</i> , <i>associative property</i> , <i>area formula</i>) and connectors to recount steps and express causality (<i>first</i> , <i>next</i> , <i>then</i> , <i>because</i> , <i>so</i>).	See Math Practice 3. Construct viable arguments and critique the reasoning of others.	
3. Construct viable	Multilingual learners construct viable	Multilingual learners construct viable arguments	Multilingual learners construct	

	KEY LANGUAGE USES			
Math Practices	Inform	Explain	Argue	
arguments and critique the reasoning of others.	arguments and critique the reasoning of others by conveying clear and precise arguments using mathematical terms including technical nouns (<i>place value</i> , <i>commutative property</i>), and past tense to quote (<i>said</i> , <i>thought</i> , <i>explained</i>) and recount steps (<i>added</i> , <i>divided</i>).	and critique the reasoning of others by explaining their mathematical thinking using technical language associated with visuals (drawings, software, demonstrations, tables, charts) to support approach and causal connectors to express reasoning (<i>We took these</i> <i>steps to solve the problem because/so</i>).	viable arguments and critique the reasoning of others by justifying and persuading using conditional structures (<i>if/then, when</i>) to demonstrate conclusions and evaluate and critique others' arguments and using questions to request information, clarification and procedure (<i>Could you show me</i> <i>how you got that answer? Why did</i> <i>you instead of?</i>).	
4. Model with mathematics.	Multilingual learners' model with mathematics to share solutions with others by describing the application of the model in problem solving using first person (<i>I/we</i>) and sequential language (first, next, then).	Multilingual learners' model with mathematics to explain problem-solving strategies by referring to visual displays with observational language (<i>notice, it appears, it looks like</i>).	See Math Practice 3. Construct viable arguments and critique the reasoning of others.	
5. Use appropriate tools strategically.	Multilingual learners select and use appropriate tools aligned to the mathematical task and describe their selection rationale using technical language associated with manipulatives and visuals and abstract generalized or multi-meaning noun groups to add precision to mathematical descriptions (randomized variation, proportional relationships).	Multilingual learners explain their strategic use of tools using precise technical language (theorems, transformations, plane, translation, reflection) and causal connectors to express reasoning (We took these steps to solve the problem of median and mean because).	See Math Practice 3. Construct viable arguments and critique the reasoning of others.	
6. Attend to precision.	Multilingual learners attend to precision to describe and summarize concept, process, or purpose using mathematically correct language (terms, phrases) and symbols.	Multilingual learners elaborate by using precise mathematical vocabulary and math specific discourse supported by causal connectors (<i>so,</i> <i>because, therefore</i>) and compare/contrast signals (<i>both, same, different</i>) to differentiate results, approaches, attributes of mathematical principles or problem-solving outcomes.	See Math Practice 3. Construct viable arguments and critique the reasoning of others.	

	KEY LANGUAGE USES		
Math Practices	Inform	Explain	Argue
7. Look for and make use of structure.	Multilingual learners identify and describe mathematical structures using mathematical terms, including technical language associated with manipulatives and visuals, and timeless present verbs to present generalizable truths (<i>The hypotenuse</i> <i>is opposite the right angle</i> .).	Multilingual learners look for and make use of structure to explain their strategy in solving a mathematical task using language associated with manipulatives and visuals and passive voice verbs to express standard form for procedural fluency (<i>The angle is given a value of</i>).	See Math Practice 3. Construct viable arguments and critique the reasoning of others.
8. Look for and express regularity in repeated reasoning.	Multilingual learners identify and describe repeated reasoning of intermediate results by sharing solutions with others using first person (<i>I, We</i>) and declarative statements to present generalizable processes (<i>We don't have</i> <i>outliers in our data; We can use a dot</i> <i>plot or histogram</i>).	Multilingual learners look for and express regularity in repeated reasoning by evaluating the reasonableness of results using past-tense doing verbs and thinking verbs (<i>calculated, we</i> <i>took these steps, remembered, thought,</i> <i>figured out</i>) to recount steps and technical language associated with visuals and manipulatives to clarify an approach and/or solution with reference to generalizations and/or patterns.	See Math Practice 3. Construct viable arguments and critique the reasoning of others.

3B. Teacher Moves: Example Instructional Supports and Example Success Criteria for Math Disciplinary Practices

Mathematical Practices 1-8

Teacher Moves: What supports can teachers provide students at different proficiency levels **to use language to interpret or make meaning** of the content? Examples:

Entering/Emerging (Levels 1-2)	Developing/Expanding (Levels 3-4)	Bridging/Reaching (Levels 5-6)
 Provide scaffolded tasks for students to draw a picture of the problem and of their solution and label it. 	 Provide learning tasks in which students can use illustrations or numbers to explain their understanding. 	• Encourage students to keep interactive math journals where they write about their problem-solving process. Use these journals to reflect on strategies and vocabulary.
 Extend student language by modeling at an appropriately scaffolded level the use of language with content. 	 Extend student language by modeling at an appropriately scaffolded level the use of language with content. 	
• Use mentor texts (student or teacher	• Use mentor texts (student or teacher	LANGUAGE
generated) to draft text-based discourse and receive feedback in preparation for lesson/unit assessment expectations.	generated) to draft text-based discourse and receive feedback in preparation for lesson/unit assessment expectations.	 Provide students with sentence frames from a leveled list of scaffolding statements.
ANGUAGE	LANGUAGE	Mathematical Practice (MP) Examples:
 Provide adequate time for students to practice the language and content with opportunity to receive specific feedback. 	 Provide adequate time for students to practice the language and content with opportunity to receive specific feedback. 	 (MP1) Information that I need is because (MP2) Could you say more about that? I agree / disagree with's choice
 Provide simple sentence frames for students practice extended discourse in the content area. 	 Provide students with a list of sentence frames scaffolded for the appropriate language proficiency level. 	oftool, but I chose also/instead because of (MP3) I'm not sure I understood you
Mathematical Practice (MP) Examples: (MP1) I usedto solve the problem. (MP2) The words I can use to represent this problem are (MP3) (point) Can you please repeat that? (MP4) I used themodel to solve	Mathematical Practice (MP) Examples: (MP1) I solved the problem by I first Then I (MP2) I struggled with, and I solved it by (MP3) I used the same/different strategy as you. I'd like to add	 when you said Could you say more about that? (MP4) The problem(s) I encountered using this model were I solved them by (MP5) I agree / disagree with's choice of tool, but I chose also/instead because

Nevada ELD Standards and Instructional Supports

Entering/Emerging	Developing/Expanding	Bridging/Reaching
(Levels 1-2)	(Levels 3-4)	(Levels 5-6)
 (MP5) The best tool to use is	 (MP4) I can prove my answer was correct using the model because (MP5) I used the same/different tool as you. My reason is (MP6) I used the label because (MP7) The pattern/rule is I know this because (MP7) The pattern/rule is I know this because (MP8) The repeated patterns I found are <i>INTERACTIVE</i> Model consistently a predetermined dialogue structure for students to state and clarify their reasoning to a partner or small group and listen to the ideas of others to agree or disagree with reasons to ensure the participation of all students. Provide sentence frames for students to practice extended discourse in the content area with a predetermined learning partner or small group. <i>GRAPHIC</i> Provide graphic organizers with non-linguistic representation math vocabulary and concepts. <i>SENSORY / MEDIA</i> Use Video Observation Guides. Scaffold students' use of math manipulatives to model and explain math problems. 	 (MP6) I used the mathematical term to explain (MP7) There are several major differences between the patterns/data sets. The most notable isbecause (MP8) Through my work I was able to identify (repeated patterns, etc.) INTERACTIVE Provide students opportunity to utilize dialogue structures in order to state and clarify their reasoning to a partner or small group, listen to the reasoning of others, and state rationale for agreement or disagreement. GRAPHIC Provide graphic organizers for students to provide examples and non-examples of academic vocabulary and concepts. SENSORY / MEDIA Use Video Observation Guides. Provide math manipulatives and expect students to model math problems.

3B. Teacher Moves: Example Instructional Supports and Example Success Criteria for Math Disciplinary Practices (continued)

Mathematical Practices 1-8

Success Criteria: How will students be able to communicate or demonstrate their learning of language and content at different language proficiency levels? Examples:

Entering/Emerging (Levels 1-2)	Developing/Expanding (Levels 3-4)	Bridging/Reaching (Levels 5-6)
With prompting and supports, multilingual learners will	With appropriate supports, multilingual learners will	With appropriate supports, multilingual learners will
Key Language Use -Explain	Key Language Use -Explain	Key Language Use -Explain
• construct viable arguments and critique the reasoning of others by explaining their mathematical thinking using technical language associated with visuals (drawings, software, demonstrations, tables, charts) to support approach and causal connectors to express reasoning (<i>We took these steps to solve the problem because/so</i>) in order to explain a preferred student strategy with the aid of visual and L1 supports, word banks/anchor charts, and simple sentence frames.	• construct viable arguments and critique the reasoning of others by explaining their mathematical thinking using technical language associated with visual data displays (drawings, software, demonstrations, tables, charts) to support approach and causal connectors to express reasoning (<i>We took these steps to solve the problem because/so</i>) in order to explain and justify a preferred student strategy with the aid of visual supports, word banks/anchor charts, and complex sentence frames.	 construct viable arguments and critique the reasoning of others by explaining their mathematical thinking using technical language associated with visual data displays (drawings, software, demonstrations, tables, charts) to support approach and causal connectors to express reasoning (<i>We took these steps to solve the problem because/so</i>) in order to explain and justify a preferred student strategy with the aid of language frames and other supports as needed.