Pre-Kindergarten-Kindergarten Science

Framework for FORMATIVE/CLASSROOM Instruction and Assessment Receptive Domains of Listening and Reading

The Pennsylvania English Learner (EL) Overlays assist educators in developing instructional units, lessons, or activities that are meaningful and comprehensible for English learners, and are aligned with Pennsylvania's *EL Differentiation Protocol*.

The EL Overlays illustrate the dynamic process of adapting instruction and assessment based on the English language proficiency of students. These are models that exemplify adaptations for a select instructional contexts and provide resources to extend this process to other instructional units. Key features of the Overlays are Model Performance Indicators (MPIs) which differentiate and scaffold instruction per ELP level by adjusting the language function and instructional support.

The EL Overlays are organized by: 1) content area, 2) grade cluster, and 3) language domain (receptive/productive).

Each **Receptive** Overlay contains:

Page 1: Introduction

Page 2: Example Listening Differentiation with Model Performance Indicators (MPIs)

Page 3: Example Reading Differentiation with Model Performance Indicators (MPIs)

Page 4: Receptive Performance Indicator (PI) Builder

Page 5: Differentiation Template

Listening Differentiation with Model Performance Indicators (MPIs)

ELD Standard 4: English learners communicate information, ideas, and concepts necessary for academic success in Science.

Content Standard(s): 3.3.K.A1 Distinguish between three types of earth materials – rock, soil, and sand

Concepts: Different materials are suited to different purposes.

Competencies:

- Analyze data from testing objects made from different materials to determine if a proposed object functions as intended.
- K-ESS3-1 Use a model to explain the relationship between the needs of different plants or animals and the places they live.

Key Use of Academic Language (KUALA): Students at all levels of English proficiency will produce RECOUNTS.

Academic Language Components								
Discourse		Sentence			Word			
characteristics) Create a rock, sand, and soil museum		This is an example of How is this like Compare/Contrast How are these alike? How are these different? Can you identify the Can you draw			Earth materials Rock Soil Sand Size Composition Texture Sediment			
ELP Level 1 Entering MPI	ELP Level 2 Emerging MPI		ELP Level 3 Developing MPI	ELP Lev	el 4 Expanding MPI	ELP Level 5 Bridging MPI		
Identify the three types of earth materials (rock, soil, and sand) by pointing to pictures, graphics or samples with teacher prompts.	Collect types of earth materials as directed by onestep teacher prompts.		Respond to WH-questions about the three types of earth materials in a small group.	Identify the three types of earth materials following two-step oral directions in a small group.		Respond to questions about the three types of earth materials with a partner.		

Reading Differentiation with Model Performance Indicators (MPIs)

ELD Standard 4: English learners communicate information, ideas, and concepts necessary for academic success in Science.

Content Standard(s): 4.1.K.E Identify how the changes of seasons affect their local environment.

Concepts:

- ESS2.D Weather is the combination of sunlight, wind, snow or rain, and temperature in a particular region at a particular time.
- PS3.B Sunlight warms the Earth's surface.
- ESS3.B) Some kinds of severe weather are more likely than others in a given region. Weather scientists forecast severe weather so that the communities can prepare for and respond to these events.

Competencies:

- K-ESS2-1 Use and share observations of local weather conditions to describe patterns over time.
- K-PS3-1 Make observations to determine the effect of sunlight on the Earth's surface.

Key Use of Academic Language (KUALA): Students at all levels of English proficiency will produce EXPLANATIONS.

Rey Ose of Academic Language (ROALA). Students at an levels of English proficiency will produce EXPLANATIONS.							
Academic Language Components							
Discourse			Sentence		Word		
Research the weather using different resources G		Give me an example of something you would wear			Winter		
Develop a drawing of a tree for each season		during the season? Explain			Spring		
Select clothes for each season		Describe the weather.			Summer		
Use a thermometer to tell temperature		How is the weather same and different in different			Fall		
Measure rainfall/snowfall amounts		environments?			Weather		
		What is the weather like today in			Rain, sleet, snow, wind, sun		
		How could we find that information?		Thermometer			
				Hot, cold, warm, cool			
ELP Level 1 Entering MPI	ELP Level 2 Emerging MPI		ELP Level 3 Developing MPI	ELP Lev	el 4 Expanding MPI	ELP Level 5 Bridging MPI	
Match pictures illustrating	Sort labeled pictures		Identify the changes in	Identify	clothing and	Identify change-of-season	
seasonal changes in a	illustrating change-of- season		seasons with a partner	activities	s associated with the	effects on local environment	
group with teacher support	effects on local environment		following the read-aloud of a	changes	of seasons using	with a partner (e.g., In the	
following the read-aloud of	(e.g., fall leaves, spring flowers,		big book.	simple s	entences in a pocket	fall, leaves fall from trees)	
a big book.	snow) following the read-aloud			chart fol	lowing the read-	following the read-aloud of	
	of a big book.			aloud of	a big book.	a big book.	

Building Receptive Performance Indicators (PIs) to differentiate and scaffold instruction per ELP level by adjusting the language function and instructional support.

1) Language Function how students will process language during a receptive activity to demonstrate attainment of the ELD and content standard.

The language of RECOUNTS		The language of EXPLANATIONS		The language of ARGUMENTS		The language of DISCUSSIONS	
Arrange	Name	Apply	Identify	Compare	Express	Answer	Initiate
Brainstorm	Order	Chart	Illustrate	Compose	Extract	Ask	Participate in
Categorize	Paraphrase	Classify	Interpret	Confirm	Interpret	Associate	Present
Compose	Reenact	Compare	Narrate	Connect	Justify	Compare	Recommend
Construct	Repeat	Compose	Note	Construct	Negotiate	Confirm	Reflect on
Сору	Replicate	Contrast	Organize	Critique	Respond to	Converse	Request
Cross check	Restate	Define	Present	Defend	Restate	Discuss	Respond to
Draw	Retell	Describe	Role play	Define	Suggest	Edit	Revise
Find	Rewrite	Develop	Show	Elaborate		Give	Use
Follow directions	Select	Express	Summarize			Indicate	
Label	Sequence	Follow directions	Tell				
List	Share	Generalize	Trace				
Locate	State						
Make	Take notes						
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- 2) Content Stem Selected focus of grade-level curricular lesson/activity for all students which remains consistent across all ELP levels:
- 3) Instructional Support Scaffolds to accompany explicit instruction with multiple opportunities for student response and feedback decreasing in degree from ELP level 1 to level 5.

ELA Sensory Supports	ELA Graphic Supports	ELA Interactive Supports
Acting/Reader's Theater	Cloze Paragraphs/Sentences	Bilingual/Picture Dictionaries
Audio Books	Gallery Walk	Internet/Software Programs
Felt/Magnetic Figures	Graphic Organizer	Jigsaw Activities
Illustrations/Photographs	Illustrated Word/Phrase Banks or Walls	Pairs/Triads/Small Groups
Manipulatives	Information Chunking	Teacher Modeling/Monitoring
Pantomime	Rubrics	Use of L1
Read Alouds	Study Guides/Guided Notes	
Realia	Written Objectives	
Role Play		
Songs/Chants		
Total Physical Response (TPR)		
Videos		

Differentiation Template									
ELD Standard:									
Content Standard(s):	Content Standard(s):								
Concepts:									
Competencies:									
Key Use of Academic Lan	Key Use of Academic Language (KUALA): Students at all levels of English proficiency will produce								
Academic Language Components									
Disco	ourse	Sent	ence	Word					
ELP Level-specific PIs	ELP Level 1 Entering	ELP Level 2 Emerging	ELP Level 3 Developing	ELP Level 4 Expanding	ELP Level 5 Bridging				
Include: 1) Language Function 2) Content Stem									
(consist across all levels)									
3) Instructional Support(s)									
Language functions and instructional supports can be selected from Page 4, or supplied by the educator.									