Louisiana Believes

Louisiana Science Connectors for Students with Significant Disabilities March 2018



Objectives

As a result of today's session, participants will be able to

- Explain the vision for the Louisiana Connectors for students with significant disabilities
- Describe how the Science Connectors work, their alignment to the Louisiana Student
 Standards for Science, and their alignment to the Louisiana Connectors for ELA and math
- Identify a plan to facilitate implementation of the Science Connectors, including proposing resources and recruiting teachers of students with significant disabilities for Teacher Leader Summit 2018

Agenda

- Vision for the Science Connectors
- Function of the Science Connectors
- Implementation Planning

Vision for the Science Connectors

History

Standards for English Language Arts and Mathematics	
Spring 2016	Louisiana Student Standards approved
Winter 2016	Louisiana Connectors for students with significant disabilities approved

Standards for Science	
Spring 2017	Louisiana Student Standards approved
Spring 2018	Louisiana Connectors for students with significant disabilities – pending -

History

	FORMER	NEW
Standards	Extended Standards	Louisiana Connectors
Assessment	LAA 1	LEAP Connect for Students with Significant Disabilities

Vision for Students with Significant Disabilities

Vision:

Louisiana believes that all students, including those with the most significant cognitive disabilities, deserve an education that prepares them to be independent and successful in life after high school.

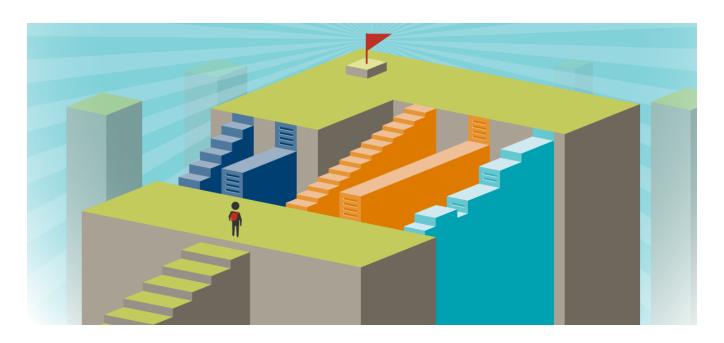
Additionally:

- Grade-level expectations are the highest expectations we have for all students.
- All students must have access to grade-level content and developmentallyappropriate opportunities in order for them to achieve expectations.
- The Louisiana Connectors provide developmentally-appropriate content for all grades and maintain high expectations for all students.

Function and Alignment of the Science Connectors

Science Connectors

- Provide concrete pathways for the academic achievement of students with significant cognitive disabilities
- Represent the major benchmarks along the pathway to achieving performance expectations



Example 1

Performance Expectation	Performance Expectation Connectors
5-ESS1-2 Represent data in graphical	LC-5-ESS1-2a Use data to describe
displays to reveal patterns of daily changes	similarities and differences in the timing of
in length and direction of shadows, day and	observable changes in shadows.
night, and the seasonal appearance of some	LC-5-ESS1-2b Use data to describe
stars in the night sky.	similarities and differences in the timing of
	observable changes in day and night.
	LC-5-ESS1-2c Use data to describe
	similarities and differences in the timing of
	observable changes in the appearance of
	stars that are visible only in particular
	months.

Example 2

Performance Expectation	Performance Expectation Connectors
3-LS3-2 Use evidence to support the	LC-3-LS3-1a Identify examples of inherited
explanation that traits can be influenced by	traits that vary between organisms of the
the environment.	same type.
	LC-3-LS3-1b Identify a cause and effect
	relationship between an environmental
	factor and its effect on a given variation in a
	trait (e.g., not enough water produces
	plants that have fewer flowers than plants
	that had more water available).

Activity



- **Find** the grade level with which you are most comfortable on <u>Louisiana Believes</u> website.
- Review the Science Connectors associated with that grade level.
- Analyze how the Science Connectors work toward the Performance Expectation.
- Discuss with a shoulder partner how the Connectors you reviewed "work".

Instructional Shifts

The Louisiana Connectors enable the following instructional shifts for students with significant cognitive disabilities:

- Access access grade-level content and skills and increase inclusion opportunities
- Focus concentrate instruction on the "big ideas"
- **Pathways** clarify present levels of performance and determine best next steps

Implementation of the Science Connectors

Aligned Resources

To assist teachers in providing standards-based instruction for students with significant disabilities, potential resources include:

- Louisiana Connectors (aligned to Louisiana Student Standards)
- Science Component Cards
- Lesson Plan Adaptation
- Student Response Modes
- 3

Resource: Louisiana Connectors

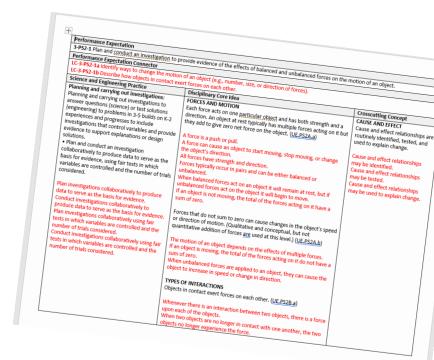
- Louisiana Connectors (aligned with Louisiana Student Standards)
- The document presents the Louisiana Connectors which are aligned to the Louisiana Student Standards and represent the most salient grade-level, core academic content in Science.

Kindergarten Science MOTION AND STABILITY: FORCES AND INTERACTIONS	
Louisiana Student Standards	Louisiana Connectors (LC)
K-PS2-1 Plan and conduct an investigation to compare the effects of different strengths or different directions of pushes and pulls on the motion of an object.	LC-K-PS2-1a Identify the effect caused by different strengths or directions of pushes and pulls on the motion of an object.
	LC-K-PS2-1b Explain the effect of pushes and pulls on the motion of an object.
	LC-K-PS2-1c Identify the effect of different strengths and directions of pushes and pulls on the motion of an object.
	LC-K-PS2-1d Compare different strengths or different directions of pushes and pulls on an object.
K-PS2-2 Analyze data to determine if a design solution works as	LC-K-PS2-2a Identify if something designed to push or pull an object
intended to change the speed or direction of an object with a push or	makes it move the way it is intended.
a pull.	LC-K-PS2-2b Identify if something designed to change the speed of an
	object makes it move the way it is intended.
	LC-K-PS2-2c Identify if something designed to change the direction of
	an object makes it move the way it is intended.

Resource: Science Component Cards

Science Component Cards

- The cards are arranged by grade levels for kindergarten through grade 8 and content areas for high school. The Component Cards include detailed Connectors for element of the performance expectations found in the the LSS:
- Performance Expectation
- Clarification Statements
- Science and Engineering Practices
- Disciplinary Core Ideas
- Crosscutting Concepts



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Resource: Lesson Plan Adaptation

Lesson Plan Adaptation

 This document serves as a template for adapting whole class lesson plans to more individualized instruction for students with significant cognitive disabilities.

Teaching Louisiana se	Template t Standards to students who participate in the LEAP Connect for Students with Significant rs create educational opportunities for all students to work toward grade-level contacts ting individualized adaptations for students.
Disabilities ensures t	Template I Standards to students who participate in the LEAP Connect for Students with Significant or create educational opportunities for all students to work toward grade-level content, tifing individualized adaptations for achievement are askablished by simplifying and
While the content	t Standards to students who participate in the LEAP Connect for Students with Significant constant, differential expectations for all students to work toward grade-level content. It is individualized adaptations for achievement are established by simplifying and work toward grade-level content. It is individualized adaptations for students with significant disabilities to learn the reservices.
prioritizing contant	s create educational opportunities for all students to work toward grade-level content, differential expectations for achievement are established by simplifying and individualized adaptations for schievement are established by simplifying and mow what content is most important for each earn the same an be readily adaptated.
concepts, concepts	iting individed expectation all students to connect for Students with
	a more dualized adaptations for achievement work toward grade I
General education	for students with are established by a level content.
activities and teachers k	now
participate in materials that or	what content is many
classroom to the general educ	no pe readily adapted for mortant for each
adaptation leacher to create un	ation setting, the logic is students with significant and they often
to the sa-	adaptations for students with significant disabilities to learn the same and be readily adapted for students with significant disabilities to learn the same and be readily adapted for students with significant disabilities to learn the same and be readily adapted for students with significant disabilities. For those students with significant disabilities, For those students with significant disabilities.
thinking at studies found on a	iddress unique lesson plans that include would be for special those students with
through lesson plan	now what content is most important for each grade and they often have developed and resulting the logical point of departure would be for specialists to work with the logical point of departure would be for specialists to work with the logical point of departure would be for specialists to work with the logical point of departure would be for specialists to work with the logical point of departure would be for specialists to work with the logical point of departure would be for specialists to work with the logical point of departure would be for specialists to work with the logical point of departure would be for specialists to work with the
plan ada	now what content is most important for each grade and they often have developed arising settings, the logical point of departure would be for specialists to work with the louisiana believes who address unique learning differences. For examples of approaches with both a louisiana believes website. The following table outsi
Sten 1	students with significant to removing table outlines with both plant
Identify whole class standard and lesson	ration setting, the logical point of departure would be for specialists to work with the address with significant disabilities. For those students who address unique learning differences. For examples of approaches with both, please refer aptation for students with significant disabilities. The following table outlines a simplified process for examples of approaches with both, please refer aptation for students with significant disabilities.
and lesson	1 - ac33 10F
Step 2 –	
Identify at:	
Louisiana Connector	
Step 3 _	
Create ct	
objective and assessment	
assessment	
Step 4	
Create aligned activities	
any any activities	
1	
Step 5 _	
Identific	
Identify appropriate supports and scaffolds	
scaffolds - Pports	

Resource: Student Response Modes

- **Student Response Modes**
- This document supports teachers in identifying the best way for all students to demonstrate their understanding in each lesson.

- It is important to identify the best way for your student to show what they know in each lesson. Here are some optic Point to the correct response when given an array - The number of options in the array may vary depending of the children of correct answer at least one plausible Point to the correct response when given an array - the number or options in the array may vary depend the student's current skills. An array of four is often used with one correct answer, at least one plausible the student's current skills. An array or lour is often used with one correct answer, at least one plausible incorrect answer, and two other distractors. Be sure to vary the location of the correct answer in the array. This
 - Pull-off Some students have difficulty pointing but may be able to make a selection when the responses are **Pull-on:** - Some students nave difficulty pointing but may be able to make a selection when the real attached to a page. The array of four options is used, but the student pulls the correct response.
- Eye gaze Students who do not have the motor skills to point, but have vision, may be able to indicate the Eye gaze - Students who do not have the motor skills to point, but have vision, may be able to indicate the response by looking at the correct option. The array can be attached to each corner of a piece of see-through the plavial see the teacher can see where response by looking at the correct option. The array can be attached to each corner or a piece of see-through plexiglass (available from most hardware stores). By looking through the plexiglass, the teacher can see where the student focuses his or her eyes to indicate the answer.
- Say or Type Some students can verbalize the correct answer. This answer may be given after viewing an array Say or Type - Some students can verbalize the correct answer. This answer may be given after viewing an arm of options or by generating the answer when asked a question. Other students may be able to generate the or options or by generating the answer when asked a question. Other students may be able to generate the answer by typing a response. Saying or typing the answer provides students with the most flexibility to describe
- Show Some learning can be demonstrating through showing the answer. The student may be able to indicate the area of the rectangle by moving his or her hand across the shape. Or, a student may answer a
- Write or type on computer Sometimes the student may be able to write the answer, for example, by writing Use material from the lesson - Students may be able to show the correct math answer by using a number card Use material from the lesson - Students may be able to show the correct math answer by using a number card or plastic numbers or with other manipulatives. Similarly, in language arts, the student may use a picture on the or plastic numbers or with other manipulatives. Similarly, in language arts, the student may use a picture name in the book or proportion that is used with a story to answer a comprehension question. Remember: the

Resource: Activity



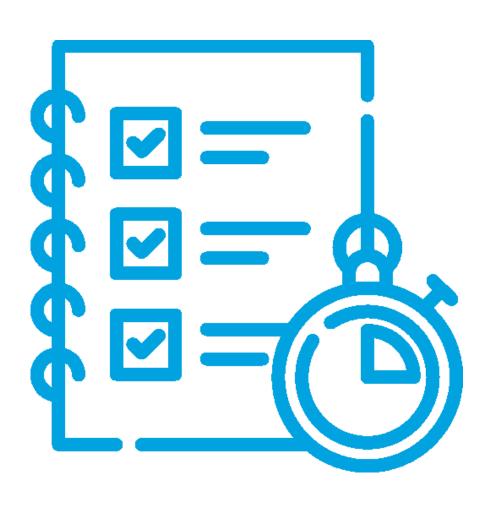
- **Brainstorm:** The proposed resource is ______.
- Justify: The proposed resource will support teacher instruction and planning by
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Standards Development: Timeline and Process

Timeline	Key Engagement
Dec 2017	Initial stakeholder discussions (process, timelines, guiding principles)
Jan – Feb 2018	Alignment proposal (LDOE worked with stakeholders and experts to determine alignment approach and develop drafts)
Mar 2018	Public comment (surveys, Collaborations, LaSEA, webinar)
Mar 29, 2018	Special Education Advisory Panel (endorsement of Bulletin 127 revision for the Louisiana Connectors for students with significant disabilities)
Apr 2018	Finalize proposals (review public feedback and finalize proposals) Recommendation for policy revisions to BESE
May 30–Jun 1, 2018	Teacher Leader Summit trainings for administrators and teachers

Planning Activity



- ☐ Provide feedback on Connectors
- ☐ Recruit Teacher Leader Summit participants
- ☐ Plan turnkey trainings for your district/ schools

Example 1: Provide Feedback



 Provide feedback during the public comment phase (March) and encourage others in your district to do the same (enter survey link here)

Example 2: Recruit Talent





• Determine and actively recruit Teacher Leader Summit participants for the two strands available.

Train the Trainer – full day for specialists

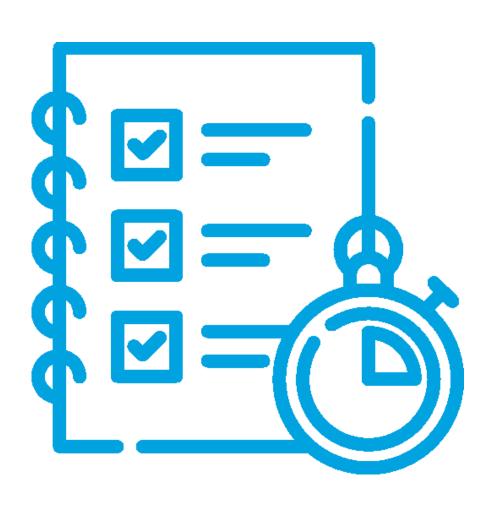
General Overview – single session for generalists

Activity 3: Communicate



• Create a plan to communicate the information from this session across the district. Be sure to identify who will be responsible, when and where, and the outcomes you want to see for general education teachers and specialists.

Planning Activity



- ☐ Provide feedback on Connectors
- ☐ Recruit Teacher Leader Summit participants
- ☐ Plan turnkey trainings for your district/ schools

Closing

- ✓ Curriculum and resources New standards, curricular and instructional resources, and parent communication tools (spring/summer 2018)
- ✓ Assessments Preview of assessment design and structure (fall 2018), new assessment administration (spring 2019)
- ✓ Teacher training and professional development Trainings on new standards (spring and summit 2018 and on-going) and provide recommendations to districts for continuing support (ongoing)

Email <u>louisianastandards@la.gov</u> with questions on standards and instruction; email <u>assessment@la.gov</u> with questions about the LEAP Connect assessment.