# RHODE ISLAND STATE ASSESSMENT PROGRAM



Alternate Assessment Science Guide to Interpretation

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#### Purpose of the Rhode Island Alternate Assessment

The federal Elementary and Secondary Education Act was reauthorized as the No Child Left Behind Act, NCLB. This law requires that states establish a single assessment and accountability system. It requires the assessment of all students, including those with significant cognitive disabilities. NCLB has three critical elements: academic content standards, academic achievement standards, and assessments. These provide the foundation for an accountability system that ensures that all students, including those with disabilities, reach high standards.

Reauthorization of the Individuals with Disabilities Education Act–2004 confirmed these elements.

The inclusion of students with disabilities in the assessment and accountability system is critical to ensure appropriate allocation of resources and learning opportunities for students. The Alternate Assessment was designed for the one percent of the student population for whom traditional assessments, even with accommodations, would be an inappropriate measure of progress. Completion of the Alternate Assessment

- provides multiple ways for the Individual Education Program (IEP) team, including general and special education teachers, support services, families, and students, to measure progress toward relevant student outcomes;
- merges instructional and assessment activities; and
- builds support for meaningful participation in the appropriate general education curriculum.

Rhode Island educators, in consultation with the Rhode Island Department of Education and Measured Progress, the state contractor for the alternate assessment, designed an assessment that is a multidisciplinary approach to student learning and progress. Datafolios showcase student work so that learning can be assessed in a comprehensive way. The philosophy behind these performance based assessments supports a method of student evaluation that allows students to demonstrate strengths, knowledge, skills, and independence and merges the processes of instruction and assessment. This assessment process encourages the student to engage in learning that is meaningful and appropriate, and provides multiple opportunities for measuring significant progress.

In effective learning environments, assessment and instruction are fundamentally linked. High quality assessment practices provide information, which can be a basis for ongoing development of a curriculum that is responsive to student needs. The performance-based assessment promotes a vision of enhancing capacities and integrated life opportunities for students who experience severe disabilities.

## STUDENT PARTICIPATION AND ELIGIBILITY CRITERIA

The majority of students with disabilities are able to participate in the general education curriculum, and will take the PARCC and NECAP Science assessments with accommodations and other supports. However, a small number of students with significant cognitive disabilities cannot participate in the PARCC and NECAP Science assessments even with accommodations. These students require a different kind of test in order for them to show what they know and can do.

The term "significant cognitive disability" is not a separate category of disability. It is a designation given to a small number of students with disabilities that applies only to their participation status in the statewide student assessment program. For a student to be considered as having a significant cognitive disability, ALL of the criteria found below must be true as shown by the evidence collected and discussed by all members of the student's IEP team. For the complete guidance document, 2015-16 Guidance on Eligibility for IEP Teams, please visit: http://www.ride.ri.gov/InstructionAssessment/ Assessment/AlternateAssessments.aspx

The three eligibility criteria that students must meet in order to be eligible for the alternate assessments are:

1. Student has a disability, or disabilities, that significantly impacts cognitive function and adaptive behavior. Review of student records and other evidence indicate a disability or multiple disabilities that prevent the student from meaningful participation in the standard academic core curriculum or achievement at their enrolled grade level. Additionally, the student's disability causes dependence on others for many, and sometimes all, daily living needs, and the student is expected to require extensive ongoing support in adulthood.

- 2. The student's instruction aligned to the Core Content Connectors and uses adapted grade-level content that focuses on essential academic knowledge and skills. Instruction in science is aligned to the science AAGSEs. Goals and instruction for this student is linked to the enrolled grade-level CCCs and address knowledge and skills that are appropriate and challenging for this student. Life and job skills are also embedded and included as part of the student's instruction and provide the context for access to the Core Content Connectors and the AAGSEs in Science.
  - a) RIAA Science: For students in grades 4, 8, or 11 instruction and curriculum should be aligned to the Alternate Assessment Grade Span Expectations (AAGSEs) for Science.
- 3. The student is unable to apply academic, life, and job skills in home, school, and community without intensive, frequent, and individualized instruction and supports in multiple setting. The student's demonstrated cognitive functioning and adaptive behavior across these settings is significantly below age expectations, even with program modifications, adaptations, and accommodations. This covers the three aspects of learning:
  - a) What the student needs in order to learn. The student requires extensive, repeated, individualized instruction and supports from teachers and other professionals.
  - b) The types of materials required in order for the student to learn. Materials are significantly modified, customized, and adapted in order to facilitate understanding.
  - c) How the student demonstrates their learning. His or her need for substantial supports to learn effectively in the grade-and-ageappropriate curriculum requires substantially adapted materials and customized methods of accessing information in order to acquire, maintain, generalize, demonstrate, and transfer skills across multiple settings.

## **TEST DESIGN AND SCORING**

The scope of standards assessed on the RIAA Science is much narrower than on the NECAP science assessment in order to accommodate the unique needs of the students who participate in the RIAA. Within each content area, two strands are assessed; one is required and the other is the teacher's choice after careful consideration of the student's needs and goals. After teachers select the AAGSEs, an assessment activity is designed. This task provides the context for assessing the standard. This design allows for content, instruction, and assessment to be successfully linked and provides a framework for evaluating what students know and can do in reading, mathematics, writing, and science.

Science follows the same structure except that the science investigation is the focus. From the science investigation, teachers assess students' science content knowledge (Knowledge Entry) as well as their ability to conduct aspects of the investigation (Inquiry Entry).

For more information on how teachers administer the RIAA in their classrooms, please read the *RIAA Administration Manual* (www.ride.ri.gov) or discuss plans directly with teachers implementing the RIAA.

#### The Testing Cycle

The RIAA for Science is a year-long assessment beginning in October and ending in May. This long testing window is divided into three smaller sections, called Collection Periods. It is useful to think of each Collection Period as a small testing window during which all testing is taking place. Each Collection Period contributes to the score of the student. Missing collection periods lowers the student's score.

The assessment information that the teachers gather during each collection period is entered into the secure online website, ProFile. At the end of each collection period, ProFile locks, preventing further entries or edits by teachers. Administrators are able to read any information entered by teachers for each student in their building, district, and/or outplacement school in a read only format.

#### Scoring

The data and student evidence teachers collected throughout the year are scored on four dimensions using the rubrics on the following pages. The dimensions that are measured are Connection to Strand, Student Progress, Level of Accuracy, and Level of Independence. Together, these determine each child's Achievement Level. Below are the questions each dimension is designed to answer:

- **1. Connection to the Content Strand:** Does the student work show that they have learned the inquiry skill and the science content being tested?
- 2. Student Progress: Over the course of the school year, did the student improve in either accuracy or independence? Improvement in either area is considered as showing progress.
- **3. Level of Accuracy:** How much of the task did the student get correct?
- **4. Level of Independence:** How much of the task did the student do on his or her own?

# TEST DESIGN AND SCORING

Dimension	0 Points	2 Points	4 Points	6 Points	8 Points
Connection to Content Strand for Science	There is insufficent evidence of a connection to the AAGSE and/or the Inquiry Construct.	There is evidence of connection to the AAGSE/ Inquiry Construct but no application of the AAGSE/ Inquiry Construct in a distinct standards- based science investigation connected to the SPT.	There is evidence of connection to the AAGSE/ Inquiry Construct and applying the AAGSE/ Inquiry Construct in 1 distinct standards- based science investigation connected to the SPT, in 1 out of 3 collection periods.	There is evidence of connection to the AAGSE/ Inquiry Construct and applying the AAGSE/ Inquiry Construct in 2 distinct standards- based science investigations connected to the SPT, in 2 out of 3 collection periods.	There is evidence of connection to the AAGSE/ Inquiry Construct and applying the AAGSE/ Inquiry Construct in 3 distinct standards- based science investigations connected to the SPT, in 3 out of 3 collection periods.

## Scoring Rubric for Science

Dimension	0 Points	4 Points	8 Points
Student Progress		Progress shown between 2 data collection periods.	

Dimension	0 Points	1 Point	2 Points	3 Points	4 Points
Level of Accuracy	Entry contains insufficent information to determine a score <b>OR</b>	Student performance of skills based on AAGSE demonstrates a minimal understanding of concepts.	Student performance of skills based on AAGSE demonstrates a limited understanding of concepts.	Student performance of skills based on AAGSE demonstrates some understanding of concepts.	Student performance of skills based on AAGSE demonstrates a high level understanding of concepts.
	0% accuracy	1–25% accuracy	26–50% accuracy	51–75% accuracy	76–100% accuracy
Level of Independence	Entry contains insufficent information to determine a score <b>OR</b>	Student utilizes extensive verbal, visual, and/or physical assistance to demonstrate skills and concepts.	Student utilizes frequent verbal, visual, and/or physical assistance to demonstrate skills and concepts.	Student utilizes some verbal, visual, and/or physical assistance to demonstrate skills and concepts.	Student utilizes minimal verbal, visual, and/or physical assistance to demonstrate skills and concepts.
	0% independence	1–25% independence	26–50% independence	51–75% independence	76–100% independence

## **REPORTING THE SCORES**

The Alternate Assessment results are reported in several formats:

Paper copies:

• Student Score Reports (parent/guardian copy and school copy)

Online to schools and districts via a secure website:

- School Summary Reports
- School Roster Reports
- District Summary Reports
- District Roster Reports

#### **Score Reports**

The parent or guardian of each student receives a Student Score Report and the *Parent Guide* to the Rhode Island Alternate Assessment 2015–16 Score Report from their school or district. A sample of a Student Score Report is shown on the next page.

Each student received an Achievement Level that was determined from the total dimension scores on the score report. To understand how a student's Achievement Level was determined, follow the steps below.

**Step 1:** Locate the Total Dimension Scores in the shaded bar on the Student Score Report on the following page or use your child's score report.

**Step 2:** Locate the Total Dimension Score for Student Progress on the student report and find that number on the Science Dimension Score Chart. Circle that number.

**Step 3:** Add the Dimension Scores for Accuracy and Independence together. Locate the total on the Dimension Score Chart.

**Step 4:** Find the Achievement Level by locating the area where the Student Progress Score and the Accuracy and Independence scores meet. That is the Achievement Level that should be listed on the Student Score Report. If the student has a different achievement level, see step 5 below.

**Step 5:** Determining the Impact of the Connection to Strand Total Dimension Score. Locate the Connection to the Strand Total Dimension Score on the Score Report. If the total score is minimal and the student is just above the cut point between Achievement Levels, the score is lowered one Achievement Level. The Achievement Level is increased if there is a strong Connection to Strand score. If the total connection score is satisfactory, the Achievement Level remained the same.

**NOTE:** If a student was supposed to participate in the Alternate Assessment but their datafolio was incomplete, they received a Connection to the Strand Total Dimension Score of 1 and the achievement level of Substantially Below Proficient.

**NOTE:** If a student was supposed to participate in the Alternate Assessment and no entries or datafolio was submitted for them, they received a Not Tested, Other designation on the Score Report.

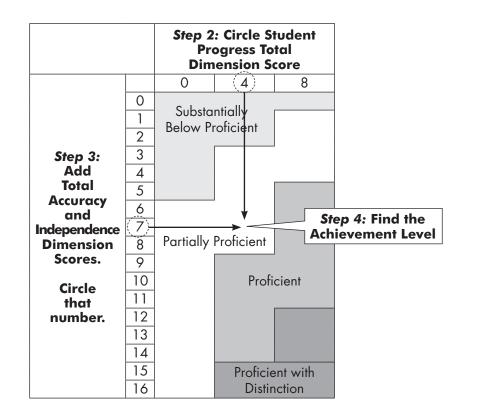
Student Score Report Sample

Rhode Island Alternate Assessment Student   Student Score Report 2015-2016 Grade:	Student: Nathan Kittredge Grade: 04	0		
Alternate Assessment datafolios assessed students in grades 4, 8, and 11 in Science. Evidence of student work was collected in three distinct data collection periods: October 5 – November 13, 2015, January 4 – February 12, 2016, & District: February 29 – April 8, 2016	Demonstration School 2 Demonstration District A	school 2 District A		
		Dimer	Dimensions	
Science	Connection to the Content Strand	Student Progress	Level of Accuracy	Level of Independence
Inquiry Construct				
Inquiry-Observing/Questioning: Make and describe observations to ask questions and make predictions	9	∞	4	4
Knowledge Construct				
The student will demonstrate the concept within a science investigation, which includes observing/questioning, planning, conducting and analyzing,	Ď			
LS12.1a - Identify one or more conditions a plant needs in order to grow and survive (e.g., light, soil, water, and/or air).				
PS3.2.1a - Identify objects that are or are not attracted to magnets.			4	e
ESS1.1.2 - Describe rocks and minerals using their physical properties.				
Total Science Dimension Scores	5	ω	8	7
Achievement Level	Level Proficient with Distinction	h Distinction		
AGSE = Alternate Assessment Grade Span Expectation S = State approved special consideration § = Datafolio was submitted but every entry was unscorable tot Tested, Other = No entries submitted			Step 1: Locate the Total Dimension Scores	
		]	]	

This document may be downloaded from http://www.ride.ri.gov/

# **REPORTING THE SCORES**

## **REPORTING THE SCORES**



#### **RIAA Science Dimension Score Chart**

Step 5: Determining the Impact of the Connection to Strand Total Dimension Score										
	Minimal Connection Satisfactory Connection Strong Connection									
Connection to the Strand Total Dimension Score	0–3	4–13	14–16							
Possible Impact on Achievement Level	Lowered to previous achievement level	Remain	Increased to next achievement level							

## ALTERNATE ASSESSMENT SAMPLE

The piece of student work that follows reflects a portion of one AAGSE that received the Proficient level of achievement. The explanation of how the student demonstrates the AAGSE is clear. "Emma was evaluated on how well she followed procedures to test each of her six objects and record her data." The description of the standards based activity provides further explanation of the purpose for this activity to assess this AAGSE within the context of the SPT, "The students used magnet wands to test the magnetism of different objects. The student participated in the science *investigation as follows: OBSERVE/QUESTION:* The 4th grade teachers reviewed the science kit on Magnets and developed the research question that would be used by the class. PLAN: To answer the research question the students identified objects of different materials to test and gathered the objects. CONDUCT: Student followed procedures to test the objects and record their data on a recording sheet. ANALYZE: The students looked at the classroom and analyzed what materials needed to be returned to the science kits."

A review of the Data Summary Sheet (see page 11) shows that this student made progress between Collection Periods 1 and 2 and between Collection Periods 2 and 3 by an increase in her Level of Independence.

In the final collection period, this student had a Level of Accuracy of 100%, which scores 4 points on the Rubric, and a Level of Independence of 57%, which scores 3 additional points.

Students performing at this level submitted datafolios that demonstrated:

- an adequate level of accuracy on instructional activities aligned with the grade span Numbers and Operations and Geometry and Measurement Alternate Assessment Grade Span Expectations (AAGSEs)
- an adequate level of independence on instructional activities aligned with the grade span AAGSEs
- consistent progress in applying knowledge and skills on the grade span AAGSEs during the year
- an adequate ability to apply knowledge and skills of the grade span AAGSEs across multiple instructional activities

#### Student Documentation Form for Science Inquiry Construct

Check box if Student Product or Photograph Evidence Documentation Form is attached.

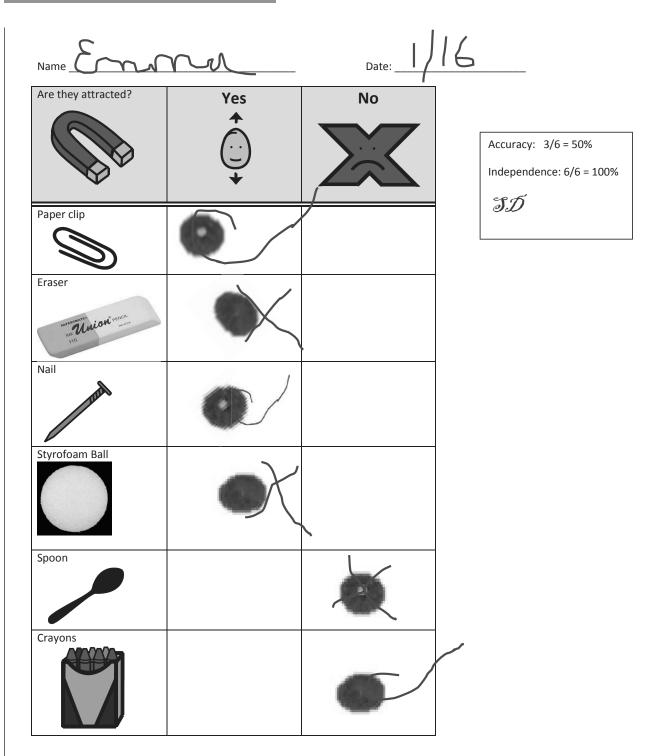
Student: Emma Scoring	Grade: 04	Date: 1/20/16	Data Collection Period: 2			
Science Domain: PS	•	Inquiry Construct Description				
Structured Performance Task#: 04-5	6	CONDUCTING: Follow procedures or use appropriate equipment or measurement devices accurately to record gualitative or				
<b>Description:</b> Student will demonstrate the concep science investigation, which includes observing/gu		quantitative data.				
planning, conducting and analyzing.		WITHIN AAGSE# PS 3.2.1a				
		<b>Description:</b> Identify objects that magnets.	are or are not attracted to			
Describe the four components of the SPT/scien embedded in the instruction of the AAGSE:	ice investigatior	n (observe/question, plan, condu	ct, and analyze) as they are			
The 4th grade is working on a unit on the explorat objects. The students participated in the science in science kit on Magnets and developed the researc the students identified objects of different materials the objects and record their data on a recording sh needed to be returned to the science kits.	vestigation as fol h question that w to test and gath	lows: OBSERVE/QUESTION: The ould be used by the class. PLAN: ered the objects. CONDUCT: Stude	4th grade teachers reviewed the To answer this research question ent followed procedures to test			
Describe the student's application of the asses	sed Inquiry Con	struct within the science investi	gation:			
During the conducting part of the investigation, Er objects and record her data.	nma was evaluat	ed on how well she followed proce	dures to test each of her six			
Eva	luation of Stud	lent's Performance				
Evaluate the student's accuracy performance o Construct. Explain how percentages were deter		Evaluate the student's independence performance on the Inquiry Construct. Explain how percentages were determined.				

Evaluate the student's accuracy performance on the Inquiry<br/>Construct. Explain how percentages were determined.Evaluate the student's independence performance on the<br/>Inquiry Construct. Explain how percentages were determined.Emma was assessed on her ability to follow procedures. She<br/>accurately used the wand to test six out of six objects correctly for<br/>an accuracy of 100%.Evaluate the student's independence performance on the<br/>Inquiry Construct. Explain how percentages were determined.

Teacher's Initials:

RIAA Web ProFile 2015-2016

## ALTERNATE ASSESSMENT SAMPLE



## ALTERNATE ASSESSMENT SAMPLE

#### Data Summary Sheet for Science Knowledge Entry

Student: Emma Scoring

Grade: 04

Science	Structured Performance Task: 04	1-5	Inquiry Construct:				
	<b>Description:</b> Student will demonstr within a science investigation, whicl observing/questioning, planning, cc analyzing.	h includes	CONDUCTING: Follow procedures or use appropria equipment or measurement devices accurately to record qualitative or quantitative data.				
	Domain: ESS AAGSE# ESS 1.1.2	Domain: PS AAGSE# PS 3.2.	Domain: LS				
	<b>Description:</b> Describe rocks and minerals using their physical properties.	Description: Ide	Description: Identify objects that are or are not attracted to magnets. ARGSE# LS 1.2.1 Description: Describe t that plants need in order and survive.				

	Collection Period 1 Oct. 5 - Nov. 13, 2015			Collection Period 2 Jan. 4 - Feb. 12, 2016			Collection Period 3 Feb. 29 - April 8, 2016					
Date	10/7/15	10/14/15	10/16/15		1/13/16	1/15/16	1/20/16		3/14/16	3/21/16	4/4/16	
Data Type	DP	DP	SDF		DP	SDF	DP		DP	DP	SDF	
Accuracy %	60	75	90		50	50	50		78	80	50	
Independence %	100	100	100		100	100	100		100	100	100	
Average % for	, , , , , , , , , , , , , , , , , , ,			Accuracy: 50			0 Accuracy: 69					
Collection Period	Independence: 100			Independence: 100			Independence: 100					

Average % across all three	Accuracy: 65
Collection Periods:	Independence: 100

RIAA Web ProFile 2015-2016