Dynamic Learning Maps® (DLM®)
District and Building Administrator Training

Science Only

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Audience and Purpose

District and Building Administrators
• This training provides information about the
  – DLM system
  – eligibility
  – assessment delivery
  – monitoring resources

2

Overview

• core beliefs
• assessment design
• accessibility supports
• assessment delivery
• reports and resources

3
DLM Core Beliefs

• The DLM system provides accessibility by design with two main core beliefs:
  – All students should have access to challenging, grade-level content.
  – Test administrators should adhere to the highest levels of integrity in providing instruction and in administering assessments based on this challenging content.
DLM Science

- DLM science assessments are available in grade bands: 3-5, 6-8, and high school.
- States choose the grades within each grade band.
**Standards: Essential Elements**

- are learning targets for the assessments
- bridge from grade-level content standards to academic expectations for students with the most significant cognitive disabilities
- link to grade-level standards in each state

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**Sample Elementary Science Blueprint**

<table>
<thead>
<tr>
<th>Essential Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1E.4.5.A-1</td>
<td>Measures and compares weights of substances before and after heating, cooling, or mixing substances to show that weight of matter is conserved.</td>
</tr>
<tr>
<td>1E.4.5.B-1</td>
<td>Makes observations and measurements to identify materials based on their properties (e.g., weight, shape, texture, hardness, color, or magnetism).</td>
</tr>
<tr>
<td>1E.4.5.C-1</td>
<td>Demonstrates that the gravitational force exerted by Earth on objects is directed down.</td>
</tr>
<tr>
<td>2E.4.5.A-1</td>
<td>Creates a model to illustrate that energy can exist in matter.</td>
</tr>
<tr>
<td>2E.4.5.B-1</td>
<td>Provides evidence that plants need air and water.</td>
</tr>
<tr>
<td>2E.4.5.C-1</td>
<td>Creates a model to show the movement of matter (e.g., plant growth, cycling, composed through living things).</td>
</tr>
<tr>
<td>2E.4.5.D-1</td>
<td>Represents and interprets data on a picture, line, or bar graph to show seasonal patterns in the length of days.</td>
</tr>
<tr>
<td>2E.4.5.E-1</td>
<td>Describes a model showing how water (hydrography) affects the living things (biophysics) found in a region.</td>
</tr>
<tr>
<td>2E.4.5.F-1</td>
<td>Uses information to describe how people can help protect the Earth’s resources and how that affects the environment.</td>
</tr>
</tbody>
</table>

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**Linkage Levels**

- provide levels of complexity for each Essential Element
  - Science has three linkage levels.
  - Each testlet a student takes includes items written to a particular linkage level.
- are based on data about the student entered in the system by the student’s teacher
- progress in complexity of skills
Linkage Levels for Science

<table>
<thead>
<tr>
<th>Linkage Level</th>
<th>Complexity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial</td>
<td>least complex</td>
</tr>
<tr>
<td>Proximal</td>
<td>more complex</td>
</tr>
<tr>
<td>Target</td>
<td>most complex; aligns with</td>
</tr>
<tr>
<td></td>
<td>Essential Element</td>
</tr>
</tbody>
</table>

Testlets
- Testlets are short assessments.
- The assessment as a whole is comprised of a series of testlets that are taken one at a time across multiple testing sessions.
- To help establish instructional relevance, each testlet begins with an engagement activity followed by 3-9 items.
- Each testlet assesses only one Essential Element.

Item Type
- single-select multiple choice
Testlet Types

• computer-delivered
• teacher-administered

Computer-Delivered Testlets

• administered directly to the student via computer
• designed to allow the student to interact independently with the computer
  – can use assistive technology
• are more common at upper linkage levels

Teacher-Administered Testlets

• Online content is for the test administrator.
• The test administrator sets up, delivers, and records responses.
• This type of testlet is common at the Initial linkage levels.
• Testlets may include picture response cards.
ASSESSMENT DELIVERY

Personal Learning Profile

- personalized for each student
  - First Contact survey settings
  - Personal Needs and Preferences (PNP) Profile settings

First Contact Survey and PNP Profile

- PNP Profile
  - Display
  - Language & Braille
  - Audio & Environment
  - Other Supports

- First Contact Survey
  - Communication
  - Academics
  - Sensory Characteristics
  - Motor Characteristics
  - Computer Access

District and Building Administrator Training - Science
Kite® Educator Portal

Educator Portal Contents

• Educator Portal
  – student data
  – rosters
  – First Contact survey
  – Personal Needs and Preferences (PNP) Profile
  – Instruction and Assessment Planner

Kite Student Portal

Welcome back, Amy!

Students use Student Portal to take their testlets.
Testlet Time

- The time needed to administer a single testlet varies depending on the student.
- Most testlets take 5 to 15 minutes to complete.

Considerations

- scheduling flexibility
- many allowable practices
- some practices not allowed
- check the ACCESSIBILITY MANUAL and TEST ADMINISTRATION MANUAL

Assessment Windows

- spring assessment window (required)
- instructionally embedded assessment window (optional)
**Spring Assessment Window**

- Students are assessed on the entire science blueprint.
- The system selects the Essential Element and assigns the linkage level.
- Each grade selected in a grade band receives 9 testlets.

**Delivery During the Spring Assessment Window**

- adaptive delivery
  - linkage levels adjust between testlets based on student performance
- one testlet at a time
  - student takes testlet
  - testlet is scored
  - next testlet arrives
  - process for score, adaptation, and delivery about 15 minutes

**Optional Instructionally Embedded Assessment Window**

- optional
- occurs during the fall and winter months
  - The teacher provides instruction and delivers testlets to check for understanding.
  - The number of testlets delivered can vary among students.

*Follow state guidance.*
Extracts and Reports

- available in Educator Portal
  - under the Reports tab
- based on user role
  - district users = district-level reports
  - building users = building-level reports
  - teachers = student and class reports
- provided in CSV format for extracts
- provided in PDF format for reports

Data Extracts
Extracts Available

- Current Enrollment
- DLM Test Administration Monitoring
- First Contact Survey File
- PNP Settings Count
- PNP Settings
- Roster
- Security Agreement Completion
- Student Roster and First Contact Survey
- Training Status
- Users

DLM Test Administration Monitoring Extract

- during the optional instructionally embedded assessment window
  - number of instructionally embedded testlets
    - not started (plans created but testlet not assigned)
    - in progress
    - completed
- during spring assessment window
  - number of testlets
    - not started
    - in progress
    - completed
    - required
  - field test, if taken

New Extract!
Student Roster and First Contact Survey

- testing readiness
  - grade in which student is enrolled
  - all subjects in which the student is rostered
  - First Contact survey completion status
- Enrollment, Roster, and First Contact Survey extracts still available individually
Student Roster and First Contact Survey

<table>
<thead>
<tr>
<th>Student ID</th>
<th>First Name</th>
<th>Last Name</th>
<th>Grade</th>
<th>Gender</th>
<th>Address</th>
<th>Phone</th>
<th>Email</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABC123</td>
<td>John</td>
<td>Smith</td>
<td>9</td>
<td>M</td>
<td>123 Main St</td>
<td>555-1234</td>
<td><a href="mailto:johnsmith@email.com">johnsmith@email.com</a></td>
<td>Enrolled</td>
</tr>
<tr>
<td>DEF456</td>
<td>Jane</td>
<td>Johnson</td>
<td>9</td>
<td>F</td>
<td>456 Other St</td>
<td>555-5678</td>
<td><a href="mailto:janejohnson@email.com">janejohnson@email.com</a></td>
<td>Enrolled</td>
</tr>
</tbody>
</table>

Reports—Alternate Assessment

Reports—Monitoring Summary
Student Progress Report

• summarizes a student’s progress during the optional instructionally embedded assessment window
• will not display any testlet delivered during the spring assessment window
• is useful when planning or reviewing instruction for a student
• displays planned and assessed Essential Elements and linkage levels, the grade-level expectation (Essential Element), and whether the student has demonstrated mastery at that level

Class Roster Report

• is only applicable for instructionally embedded testlets (not spring assessments)
• displays most recent assessment and current instructional goals by Essential Element for one or more students on a roster
End-of-Year Reports

Individual Student Score Reports (ISRs)

- are available after the spring assessment window has closed
- are accessible depending on which user roles have state permission to view the reports
- are summative reports
- provide student results from the year’s DLM assessments

ISRs (continued)

- Individual Student Score Reports (ISRs) provide results from ONLY the spring assessments.
  - They are comprised of a Performance Profile and a Learning Profile.
- Resources are available for understanding the reports and how to explain them to parents and guardians.
- Check with your assessment coordinator about when your Individual Student Score Reports will be available.
Aggregate Reports

- summarize testing results across the district, school, or class in PDF format
- provide the number of students tested by grade, subject, and performance level
- are released based on user role

Archived Reports

Summary of Extracts and Reports

- Many helpful extracts and reports are available in Educator Portal.
- Check the EDUCATOR PORTAL USER GUIDE for help on how to access and use the resources.
Parent Resources

- Parent Interpretive Guide (also in Spanish)
- Parent Cover Letter for Score Reports
- Student Portal
  - can be downloaded on a home computer/tablet
  - use practice activities and released testlets

Additional Resources

- Professional development is offered.
  - more than 50 instructional modules (three specific to science)
  - a variety of instructional resources including books that can be read with a student
  - writing tools available if a student cannot use a standard pencil or computer keyboard
  - communication supports if a student struggles to use speech to communicate
  - a virtual community of practice to interact with other families

Summary of Manuals

- ACCESSIBILITY MANUAL
- ASSESSMENT COORDINATOR MANUAL
- DATA MANAGEMENT MANUAL
- EDUCATOR PORTAL USER GUIDE
- TECHNOLOGY SPECIFICATIONS MANUAL
- TEST ADMINISTRATION MANUAL
Conclusion

• DLM assessments
  – are designed for students with the most significant cognitive disabilities
  – enable students to better demonstrate what they know, understand, and can do academically in relationship to the Essential Elements in science
  – reflect a reduced depth, breadth, and level of complexity
  – present accessible content, accessible design, and accessible delivery
  – include available reports and extracts to help monitor assessments

THANK YOU!

If you have further questions, contact the DLM Service Desk at 1-855-277-9751, email dlm-support@ku.edu, or visit dynamiclearningmaps.org

District and Building Administrator Training - Science