

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



Overview

- Core beliefs
- Assessment design
- Accessibility supports
- Assessment delivery
- Reports and resources



CORE BELIEFS



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.





ASSESSMENT DESIGN

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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.

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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

Elementary: Essential Elements Assessed

Topic	EE	Description
PS1.A	EE.5-PS1-2	Measure and compare weights of substances before and after heating, cooling, or mixing substances to show that weight of matter is conserved.
	EE.5-PS1-3	Make observations and measurements to identify materials based on their properties (e.g., weight, shape, texture, buoyancy, color, or magnetism).
PS2.B	EE.5-PS2-1	Demonstrate that the gravitational force exerted by Earth on objects is directed down.
PS3.D	EE.5-PS3-1	Create a model to describe that energy in animals' food was once energy from the Sun.
LS1.C	EE.5-LS1-1	Provide evidence that plants need air and water to grow.
LS2.A	EE.5-LS2-1	Create a model that shows the movement of matter (e.g., plant growth, eating, composting) through living things.
ESS1.B	EE.5-ESS1-2	Represent and interpret data on a picture, line, or bar graph to show seasonal patterns in the length of daylight hours.
ESS2.A	EE.5-ESS2-1	Develop a model showing how water (hydrosphere) affects the living things (biosphere) found in a region.
ESS3.C	EE.5-ESS3-1	Use information to describe how people can help protect the Earth's resources and how that affects the environment.

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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

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Linkage Levels for Science

Linkage Level	Complexity
Initial	Least complex
Proximal	More complex
Target	Most complex; Aligns with Essential Element

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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.

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Item Type

- Single-select multiple choice

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Testlet Types

- Computer-delivered
- Teacher-administered

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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

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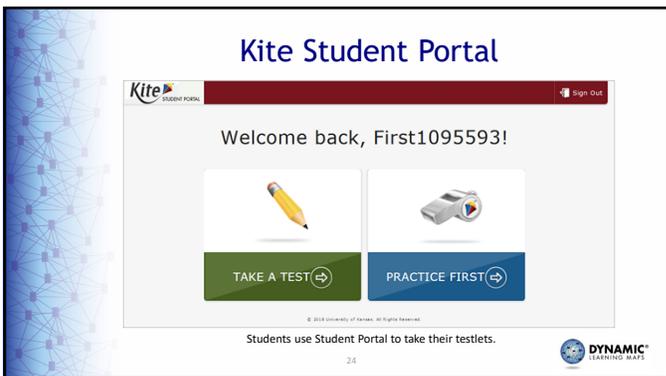
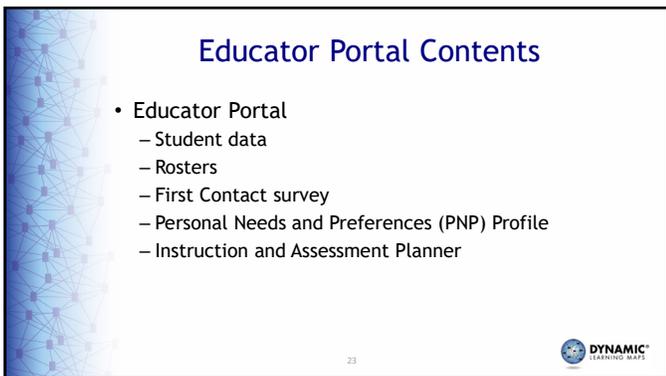
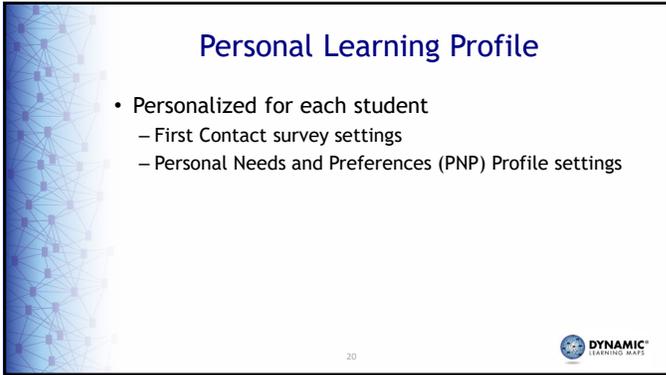


Teacher-Administered Testlets

- Online content is for the test administrator.
- 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.

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Testlet Time

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



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Considerations

- Scheduling flexibility
- Many allowable practices
- Some practices not allowed
- Check the ACCESSIBILITY MANUAL and TEST ADMINISTRATION MANUAL



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Assessment Windows

- Spring assessment window (required)
- Instructionally embedded assessment window (optional)



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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.



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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



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Optional Instructionally Embedded Assessment Window

- Optional
- Occurs during the fall and winter months
 - Teacher provides instruction and delivers testlets to check for understanding
 - Number of testlets delivered can vary among students

Follow state guidance.



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DATA EXTRACTS AND REPORTS

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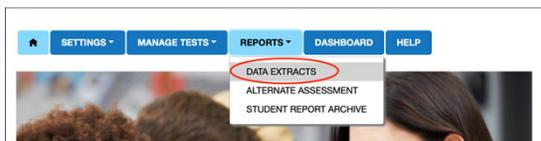
Extracts and Reports

- 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

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Extracts



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Extracts

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

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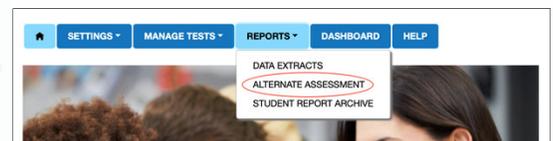
DLM Test Administration Monitoring Extract

- 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

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Reports



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Reports

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DYNAMIC
LEARNING MAPS

Reports

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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

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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

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Reports

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Individual Student Score Reports

- 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

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Individual Student Score Reports

- 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.



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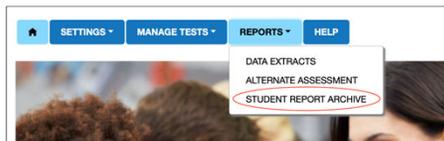
Aggregate Reports

- 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



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Archived Reports



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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.



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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



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Additional Resources

- Professional development
 - 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 are 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



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Summary of Manuals

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

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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

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THANK YOU!

If you have further questions, contact the DLM Service Desk at 1-855-277-9751, email d1m-support@ku.edu, or visit dynamiclearningmaps.org

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