Strengthen Assessment Practices Using
PLTW Launch Frameworks

Our Agenda

- Welcome and Introduction of Presenters

- Overview of Session

- How Do You Assess Learning in an APB Classroom?

- Assessment Practices that Work!

- Exploring Ideas for Your Classroom

- Q/A

Meet the Facilitators

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Learning Objectives

- Consider how the activity-, project-, problem-based instructional approach impacts assessment practices.

- Explore successful classroom assessment practices.

- Investigate using PLTW Launch Curriculum Frameworks as a planning tool for assessment.

- Identify assessment practices and ideas for your classroom.

Assessment in an APB Classroom

With students actively engaged in making sense of the world in an APB classroom, assessment looks different than with traditional instructional practices!

How Do You Assess Learning in an APB Classroom?
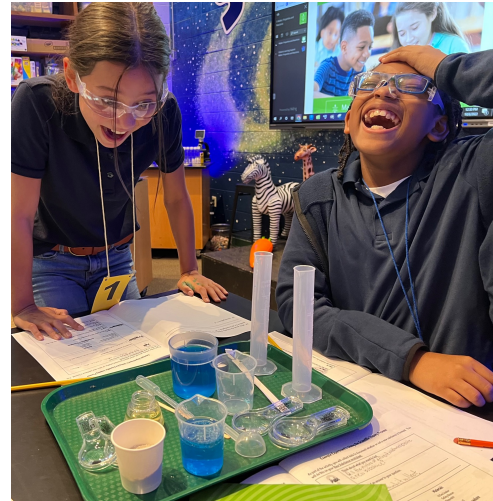
How Do You Assess Learning?

Student Demonstration

PLTW Launch Log

Discussion

Conclusion Questions

Teacher Observation

Summative Assessment

PLTW Launch Curriculum Frameworks

The frameworks are valuable planning tools that:

- Outline the learning objectives and knowledge and skills addressed in the module

- Map learning objectives and knowledge and skills to opportunities for assessment.

[Unpacking the PLTW Launch Curriculum Frameworks](#)

PLTW Launch Curriculum Framework – Fourth Grade

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Energy Exploration

Established Standards / Goals / Practices	Desired Results (Stage 1)	
	Transfers	**Essential Questions**

For full details, see Connections to Standards in the Teacher Guide.
Next Generation Science Standards
  Science and Engineering Practices
    • Asking Questions and Defining Problems
    • Developing and Using Models
    • Planning and Carrying Out Investigations
    • Analyzing and Interpreting Data
    • Using Mathematics and Computational Thinking
    • Constructing Explanations and Designing Solutions
    • Engaging in Argument from Evidence
    • Obtaining, Evaluating, and Communicating Information
  Disciplinary Core Ideas
    • Physical Science
    • Engineering Design
  Crosscutting Concepts
    • Cause and Effect: Mechanism and Prediction
    • Energy and Matter: Flows, Cycles, and Conservation
    • Systems and System Models
  Connection to Nature of Science
    • Science is a Human Endeavor
  Connection to Engineering, Technology, and Applications of Science
    • Influence of Engineering, Technology, and Science on Society and the Natural World
CSTA K-12 Computer Science Standards
    • Networks and the Internet
    • Data and Analysis
Common Core English Language Arts
    • Reading: Literature
    • Reading: Informational Text
    • Writing
    • Speaking and Listening
Common Core Mathematics
    • Mathematical Practices
	Students will be able to independently use their learning to …
	• T1 Work effectively within a team.
	• T2 Apply a step-by-step design process to solve a problem.
	• T3 Identify energy transfer and conversion in everyday situations.
		Students will keep considering …
		• EQ1 Why is energy necessary?
		• EQ2 How does energy transfer affect your life?
		• EQ3 How can a step-by-step process help you construct an explanation or design a solution to a problem?

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A PLTW Launch Conference

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Let's Explore a Framework!

Work collaboratively with your table group to:

- **Review** the framework for Stability and Motion: Forces and Interactions.

- **Identify** assessment opportunities for one of the following:
  - Student Demonstration
  - PLTW Launch Log
  - Discussion
  - Conclusion Questions
  - Teacher Observation
  - Summative Assessment

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Reflection

- What did you learn from unpacking the framework?

- How will you apply your learning in your classroom?

PLTW Launch Module-specific PD Resources

Launchpad offers professional development resources for developing knowledge and skills related to assessment in an APB classroom. Explore these resources:

- Unpacking PLTW Launch Curriculum Frameworks
- The Teacher as Facilitator of Learning
- The Art of Questioning
- Building Questioning Skills
- Question Bank
- PLTW Formative Assessment
- Uncovering and Addressing Misconceptions
- From Launch Logs to Engineering Notebooks
- Using PLTW Launch Logs

Questions?