

Western Suffolk BOCES and LISTEMELA present

# Developing Storylines in Biology and Chemistry

The new science standards call for significant shifts in the way we deliver science instruction to students in secondary classrooms. Planning for instruction by developing a storyline can be a powerful way of shifting classroom instruction to become more in line with the vision for these new standards, more engaging for students, and lead to improved student achievement in science. In this training, teachers will walk through the process of developing a storyline and then have the opportunity to immediately apply their learning by working collaboratively with colleagues to develop a storyline they can take back and use in their classrooms.

## Learning Intentions:

During this session, participants will:

- ✓ Discover what a storyline is and why they are an effective way to design instruction aligned to the new science standards.
- ✓ Explore where to find anchoring phenomena, how to evaluate how well a phenomenon aligns to the selected standard, and how to use a phenomenon to drive instruction throughout a unit.
- ✓ Practice using resources to unpack a standard to determine what students need to figure out throughout the storyline.
- ✓ Learn ways of building sense-making opportunities into instruction to help students “connect the dots” and move toward a deeper understanding throughout their learning.
- ✓ Collaboratively develop a three-dimensional storyline for a unit they will be teaching in their biology or chemistry classroom.

## Agenda:

- ✓ Welcome, Warm-Up
- ✓ What is a Storyline?
- ✓ Using anchoring phenomena to drive instruction
  - Finding and Evaluating phenomena
  - Using phenomena to generate initial models and questions
- ✓ Beginning with the end in mind—What do we want students to figure out?

Lunch (11:30-12:30)

- ✓ Developing the storyline
  - What student question(s) will drive the learning
  - What practices will students use?
  - What crosscutting concepts will students connect to?
- ✓ Building in sense-making opportunities
- ✓ Closing Comments

**Liz Mirra** has 20 years of experience working as a science educator and science instructional coach. As a classroom teacher, she had remarkable success boosting students’ motivation and achievement in science. She was involved in reviewing and providing feedback on the Next Generation Science Standards throughout their development and has worked with dozens of schools and districts throughout the United States providing professional development and assistance aligning curriculum and assessments to the new standards. Liz is the 2011 recipient of the prestigious Presidential Award for Excellence in Science Teaching.



### Registration:

#### My Learning Plan/WebReg:

Please copy this link into your browser:

<http://www.wsbores.org/webreg>

For registration instructions,

please see the reverse side (pg 2) of this flyer.

#### Questions?

[dmaxwell@wsbores.org](mailto:dmaxwell@wsbores.org) 631-595-6829

**Date:** Monday, January 14, 2019

**Time:** 8:30am – 2:30pm

**Location:** Western Suffolk BOCES

Div. of Instructional Support Svcs  
31 Lee Ave., Wheatley Heights, NY

**Fee:** \$80pp OR 1 Science Consortium Seat

*Breakfast and Lunch will be provided*

**CTLE Areas of Activity: Pedagogy and Content**



**Western Suffolk BOCES Professional Development**  
**Web Registration Directions**

***Check with your district to see if you are a member of My Learning Plan  
Workshop flyer maps for directions can be found on MLP***

***Please copy this link into your web browser***

<http://www.wsbores.org/WebReg>

- ⇒ You should now be in the Western Suffolk BOCES activity catalog. All conferences are listed in chronological order.
- ⇒ Select the course you'd like to enroll in
- ⇒ When ready, click the "Click to Enroll" button
- ⇒ You will see 3 options

**OPTION 1**

- **If your district is a MLP member,**  
please click on "mylearningplan.com users".

- ⇒ Type in your username and password
- ⇒ Enter/review personal registration information
- ⇒ Select payment method
- ⇒ Click Terms and Conditions button
- ⇒ Print your enrollment form
- ⇒ Please continue to fill in your district's required fields
- ⇒ Submit for approval
- ⇒ You will receive an email when you are approved and enrolled

**OPTION 2**

- **If your district is a non-member of MLP,** and you are creating an account for the first time, click on "I'm a new user"

- ⇒ Put in your first and last name with a valid email address
- ⇒ Continue filling in your personal information
- ⇒ Select payment method
- ⇒ Click Terms and Conditions button
- ⇒ Submit your request
- ⇒ Print your enrollment form
- ⇒ Have your form signed by at least one administrator for their approval
- ⇒ **Please fax signed/approved enrollment form to 631-623-4915**

**OPTION 3**

- **If your district is a non-member of MLP and you've already created an account**

- ⇒ click on "I'm a registered user"
- ⇒ Put in your email address and password
- ⇒ Continue following the above non-member instructions

***Once registration has been submitted:***

- ⇒ Click "logout" button to finish the process
- ⇒ You will receive an email when you are registered.