



Science Department Program of Study

November 5, 2019



**Knox County Schools
District Learning Day
@South Doyle High**

Science Department District Learning Day

@South Doyle High School

Site Lead: Andrea Berry

Schedule At-A-Glance	
7:45-8:20	Light Breakfast & Sign-in Auditorium Lobby
8:30-8:55	General Session Auditorium
9:00-9:55	Session 1 (Sign up on MLP) Main Building
10:05-11:00	Session 2 (Sign up on MLP) Main Building
11:05-11:30	Department Meetings Rooms Assigned

South Doyle High Session 1 9:00-10:00

Title	Audience	Location
<p>AP Textbook Training 201 (ADVANCED TRAINING) PART 1 <i>Presenter: Pearson</i> This session is for teachers that are using MASTERING and want to learn more to the platform. While Mastering is an amazing resource navigating can be challenging. This is for the teacher that ALREADY is logged in and knows the basics of Mastering. The presenter will take you farther than other presenters to learn so much about this great resource. This session does take two hours. You will need to sign up for the Part 2 session. BYOD: Bring Your Own Device (FOR TEACHERS THAT ALREADY HAVE LOGGED ON MASTERING)</p>	AP Biology Honors Biology AP Chemistry AP Physics	101
<p>Elevate your ELL Students' Science Understanding <i>Presenter: Tami Russell</i> Spend time engaging in supports for ELL students which are strong teaching strategies for many types of learners. We will dig into the free Ellevation program, that teachers with ELL students can access. Features within your Pearson online textbooks and other resources will be highlighted to support ELL in science learning.</p>	6 th - 12 th	102
<p>Simplifying Data Analysis When You are Short on Time <i>Presenters: Trudy Rogers and Tracy Pace</i> In this session, a think-aloud strategy and ready-to-use resource are paired to enable students to analyze data in minutes. Teachers will develop an activity that can be implemented in class immediately. In addition to experiencing the practice of data analysis, teachers will walk away with a data resource that is updated weekly and can be used in any science course offered. BYOD: Bring Your Own Device</p>	6 th -12 th grades	103
<p>Competitive STEM – Scholarships, Competitions, Awards, and More! <i>Presenter: Audrey Sizemore, University of Tennessee</i> Pre-college Research Excellence Programs (PREP) are research-focused programs at the University of Tennessee, Knoxville for middle school and high school students geared to promote STEM disciplines in Tennessee youth. Come learn how PREP combines the excitement of competition with challenges in science, innovation, and beyond!</p>	6 th - 12 th grades	104
<p>Incorporating Test Data and PLE strategies using Edulastic <i>Presenters: John Steinke</i> In this session, we will look at utilizing test data to inform instruction by examining a remediation unit. We will examine: how to build tests to gather data on student growth, what to do with the data once we've gathered it, and specific PLE strategies to guide students as they strive to improve their academic deficiencies. BYOD: Bring Your Own Device</p>	6 th -12 th grades	105
<p>What to look for when Developing Three Dimensional Tasks <i>Presenters: Melody Hawkins and Nicole Resmondo</i> Our new standards ask that we involve students in three dimensional tasks. How do we know what these tasks should look like and what is a high-quality task? Learn what to look for in a high-quality task and how to start developing your own tasks with students to support daily formative assessment. <u>This session is a repeat from July 30th DLD.</u></p>	6 th -12 th grades	111
<p>Cash in on the Carbon Cycle <i>Presenters: Cathy Ginel</i> Develop a scaled model of global carbon pools to explain carbon transforming processes associated with fluxes and the impact on climate. Walk away with a complete lesson and materials to use in your class for the upcoming standard in Biology Module 6. For Biology teachers. BYOD: Bring Your Own Device</p>	Biology	110
<p>"Flipped Classroom" Body Systems Unit for 7th grade <i>Presenters: Bethany Saunders, Julianne Brandt, Cori Hackworth</i> Using a mix of hands-on, digital, and literacy resources, learn how to teach body systems using a flipped classroom approach, where students engage in and explore information about each body system on their own. Then, we will run through a simulation from our book called "Working Together" where students use the information they have gathered to draw conclusions about how the body systems they learned about work together. You will walk away with an entire 1.5 week unit to use in your classroom!</p>	7 th grade	116

<p>Content Lecture: The Universe , Doppler Effect <i>Presenter: Matt Milligan</i> Join Matt Milligan as he provides some clear insight and content background into the upcoming Earth Science standard, specifically 8.ESS1.1, covering rapid expansion of the universe, doppler effect, etc. This session is highly recommended for all 8th grade teachers to attend.</p>	8 th grade teachers	Auditorium
<p>Speed Dating Science Strategies <i>Facilitator: Andrea Berry</i> This session will present research-based strategies and give you opportunity to speed share through several rounds to give and take input about each strategy with other science teachers.</p>	6 th -12 th	Library

Session 2 10:05-11:00

Title	Audience	Location
<p>AP Textbook Training 201 (ADVANCED TRAINING) PART 2 <i>Presenter: Pearson</i> You must attend part 1 to participate in this session. This session is for teachers that are using MASTERING and want to learn more to the platform. While Mastering is an amazing resource navigating can be challenging. This is for the teacher that ALREADY is logged in and knows the basics of Mastering. The presenter will take you farther than other presenters to learn so much about this great resource. This session does take two hours. BYOD: Bring Your Own Device (FOR TEACHERS THAT ALREADY HAVE LOGGED ON MASTERING)</p>	<p>AP Biology Honors Biology AP Chemistry AP Physics</p>	101
<p>Let's Talk Scientific Discourse <i>Presenter: Tami Russell</i> Brush up on key strategies for meaningful science talk as a learning tool in your classroom. Deliberately involve students in discourse that helps them deepen their thinking about your content.</p>	6 th - 12 th	102
<p>Three Dimensional Lessons with PhET Simulations <i>Presenter: Cassie Miller</i> PhET Simulations and materials from the University of Colorado offer ready-made lessons that align with science practices, cross-cutting concepts and our Tennessee standards. In this session, you will have the opportunity to practice three different lessons and take away student materials. You can also browse the simulation offerings and see how to adapt existing lessons to include more practices, concepts and standards.</p>	6 th -12 th	105
<p>Competitive STEM – Scholarships, Competitions, Awards, and More! <i>Presenter: Audrey Sizemore, University of Tennessee</i> Pre-college Research Excellence Programs (PREP) are research-focused programs at the University of Tennessee, Knoxville for middle school and high school students geared to promote STEM disciplines in Tennessee youth. Come learn how PREP combines the excitement of competition with challenges in science, innovation, and beyond!</p>	6 th -12 th grades	104
<p>Making Thinking Visible Through Models <i>Presenter: Andrea Berry</i> Allowing students to show what they know and make thinking visible is an important part of science instruction. Students selecting and sharing models and helping students revise models is an essential part to our science and engineering practices. In this session, participants will see strategies used with students to make student thinking visible and strategies that can be used in any classroom. <u>(REPEAT session from July 30th)</u></p>	6 th -12 th grades	110
<p>What to look for when Developing Three Dimensional Tasks <i>Presenters: Melody Hawkins and Nicole Resmondo</i> Our new standards ask that we involve students in three dimensional tasks. How do we know what these tasks should look like and what is a high-quality task? Learn what to look for in a high-quality task and how to start developing your own tasks with students to support daily formative assessment. <u>This session is a repeat from July 30th DLD.</u></p>	6 th -12 th grades	111
<p>AP Networking <i>Facilitator: Alisha Gilbert</i> <i>This is a time for AP Networking, planning and discussing new AP Central resources.</i></p>	All AP	113 (114 as a break out room if needed)
<p>Planning with Pearson Realize <i>Presenter: Ronnah McClure</i> This session will be led by middle school teacher that has used Realize to plan and assess with her students. She will show you how she uses the textbook to make planning simple and easy. Time will also be allowed for you to plan your next Pearson lesson. BYOD:Bring Your Own Device</p>	6 th -8 th	115
<p>Middle School Physical Science EOC Review <i>Facilitator: Trudy Rogers</i> Review results from previous EOC and review questions on EOC.</p>	Middle School Honors	103

	Physical Science	
Unlock the new 7th grade Matter Standards <i>Presenter: Dr. Cheryl Robertson</i> In this session, we will break down content and make sense of the standards, introduce you to appropriate phenomena and resources, and will make Modules 1 and 2 come alive for you and your students. Join us to deepen your understanding of these standards and bring the “wow factor” to your Matter Modules.	7 th grade	116
Costa’s Three Levels of Questioning Presenters: Brandon Clowers and Brant Gerhardt This session is on Costa’s three levels of questioning and how to integrate it with interactive notebooking. This is an AVID strategy that can be used in any classroom to strengthen questioning.	6 th -12 th grades	201

Session 3 11:05-11:30 Department Meetings

School	Meeting Place
High Schools: Austin East, Bearden, CMA, Carter, Central , Farragut,	Auditorium
High Schools: Fulton, Gibbs, Halls	Main Library Area
Hardin Valley Academy	Blue Room in Library
Karns High	Room 205
L&N	Room 213
Bearden Middle	Room 214
Powell High	Red Room in Library
West High	Café in Library
South Doyle	TBA
Carter Middle	Room 101
Cedar Bluff Middle	Room 102
Farragut Middle	Room 103
Halls Middle	Room 104
Gibbs Middle	Room 105
Gresham Middle	Room 110
Hardin Valley Middle	Room 111
Holston Middle	Room 113
Karns Middle	Room 114
Northwest Middle	Room 115
Powell Middle	Room 116
South Doyle Middle	Room 201
Vine Middle	Room 202
West Valley Middle	Room 203
Whittle Springs Middle	Room 204