Active Process Skills
September 15, 2015  Workshop# SD150923-E60
Fee: $100

Data shows that there has been a significant increase in dual coded questions on the STAAR test involving content and process skills in Science. Teachers will engage in a model process skills lab, and will investigate process skills TEKS to be able to incorporate them into every day science teaching.

Vocabulary Strategies for the Secondary Science Classroom
September 22, 2015  Workshop# SD150922-E50
Fee: $100

Would you like to know more about Marzano’s 6-Step Vocabulary Process? If so, please join us as we experience the 6-step vocabulary process. We will learn strategies that can easily be implemented in the secondary science classroom. In addition, participants will have the opportunity to create and choose strategies for their current instructional unit. Please bring your own technology and current and/or future unit materials. This session is appropriate for 6th–12th grade science teachers.

Social Studies & Science 3–5
September 22, 2015  Workshop# SD150922-M60
Fee: $100

Let’s make mountains move! Social Studies and Science have a lot in common. Join us for a fun learning day and discover the impact of the relationships between earth, science and its inhabitants. Connecting Science and Social Studies and using your time effectively while making learning more engaging, it’s a win, win! This session is designed for grades 3rd–5th.

Critical Success Factor 1: Improve Academic Performance
Critical Success Factor 7: Increase Teacher Quality

First Year Science Teachers K–12
September 22, 2015  Workshop# SD150922-E60
Fee: $100

First Year Science teachers often struggle with understanding TEKS and how to make sense of classroom management techniques. In this workshop, teachers will learn how to align their instruction according to what the student expectation actually requires of students. They will also learn how to effectively write a content objective and a language objective into their lesson plans. Teachers will also gain an understanding about how to best support science students by using best practices in Science classroom management.
Sheltered Instruction in Science
October 1, 2015
Fee: $100

Participants will experience elements of sheltering instruction in K-12 science classrooms to support academic vocabulary and language acquisition for English Language Learners. Participants will engage in a hands-on science experiment and practice implementing strategies learned by creating their own grade level lesson. Participants will experiment with designing instructional activities that incorporate TEKS and ELPS in a 5E lesson model.

Tablets 101
October 6, 2015
Fee: $100

Digital Technology is a proven and effective way to capture students’ attention and keep them engaged in hands-on science, technology, and engineering and math lessons. This workshop is for educators just getting started with new Tablets or considering how to incorporate mobile technology into the classroom. This will be a hands-on session where participants will plan and utilize mobile technology activities to foster Transfer of Knowledge with their students. Learn firsthand how mobile technology can get your students excited as they model real-life mechanisms and solve real-world challenges, all while building the critical-thinking and creative problem-solving skills that will serve them well for a lifetime.

You’ve Done the Lab, Gathered the Data, Now What?
October 6, 2015
Fee: $100

You’re spending 40% of your time doing hands-on investigations. But how are you taking advantage of the data being gathered in these experiments? Are your students interacting with the data? Asking questions? Making predictions? Analyzing results? Join us for this full day of learning how to use Google tools in combination with your science experimental data. Participants will be guided through creating data collection forms, learn how to share and manipulate spreadsheet data and see examples of practical experiments and applications for the 6th–12th grade science classroom. Participants must have a Google account. If you do not have a Google account through your school, feel free to use your personal Google account or create an account at https://accounts.google.com/signup prior to the session. Bring your laptop and power cord!
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<tr>
<th>Event Title</th>
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<tbody>
<tr>
<td>Collaborative Work Group</td>
<td>October 7, 2015</td>
<td>SD151007-E50</td>
<td>$120</td>
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<td>Using the Making Sense of Student Work Protocol, participants will examine students’ work and use it to discuss student thinking and implications on instruction. Participants will collaboratively reflect upon their implementation of learned strategies. Cost of the session includes cost of the book from West Ed. Session is appropriate for 3rd–8th grade Math Teachers and 6th–12th grade Science Teachers.</td>
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| Enriching Formative Assessments through Learning Targets                   | October 14, 2015 | SD151014-E30    | $100    |
| Are you struggling with using formative assessments to make instructional changes? If so, please join us as we learn how to write clear learning targets prior to using formative assessments. Participants will experience various formative assessments throughout the session prior to creating their own. Please bring your own technology and future unit materials. This session is appropriate for secondary science teachers. |

| Science of Racing                                                          | October 15, 2015 | ST151015-E70    | $100    |
| The training is a unique learning opportunity for teachers to conduct hands-on activities that include examining polymers, distinguishing the difference between engines, motors and generators and how they work, and comparing fuels (gas vs. ethanol) with molecular models. Mathematics teachers have the opportunity to discuss how they can use these activities and support the science. Participants will be given the opportunity to build their own Pinewood Derby Car applying the principles of force, motion & energy. |

<p>| Experimenting with Elementary Science Strategies for Struggling Learners   | October 20, 2105 | PD151020-A25    | $75     |
| Learn strategies that assist struggling learners including your specialized population through differentiated instruction using secondary science process skills and concepts. |</p>
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<td><strong>Argument Driven Inquiry as a Way to Transform Laboratory Experiences</strong></td>
<td>October 21–22, 2015</td>
<td>SD151021-E50</td>
<td>$200</td>
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<td><strong>Incorporating College and Career Readiness Standards into Every Day Teaching</strong></td>
<td>October 27, 2015</td>
<td>SD151027-E60</td>
<td>$100</td>
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<td><strong>Science Lab Safety</strong></td>
<td>November 2, 2105</td>
<td>SD151102-E50</td>
<td>$100</td>
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<td><strong>LEGOS EV3 Robotics 101</strong></td>
<td>November 3, 2015</td>
<td>ST151103-E70</td>
<td>$100</td>
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This two-day session will introduce an approach to laboratory instruction called Argument Driven Inquiry. It is based upon current research of how people learn. Participants will have an opportunity to experience an example of an ADI lab investigation first hand, examine samples of student work, and learn how to support students during an ADI lab investigation.

Workforce employers have identified key skills that are lacking in today’s potential employees for lucrative careers. Critical thinking, effective communication, and collaboration with peers are essential skills for students in the classroom as well as in the workforce after graduation. Participants will learn how to incorporate essential skills using the College and Career Readiness Standards (CCRS) into their everyday teaching practices.

In this training participants will review the laws, rules and regulations that must be followed to create safe science classrooms. The session will include information on the new Globally Harmonized System (GHS) of classifying and labeling chemicals. NOTE: Cost of training includes a participant copy of Texas Safety Standards: Kindergarten through Grade 12 Science (4th Edition).

Robotics is a proven and effective way to capture students’ attention and keep them engaged in hands-on science, technology, and engineering and math lessons. This workshop is for educators just getting started with new LEGO® MINDSTORMS Education EV3 or considering how to incorporate MINDSTORMS into the classroom. This will be a totally hands-on session where participants will build and program an EV3 robot. Learn firsthand how LEGO Education MINDSTORMS EV3 can get your students excited as they model real-life mechanisms and solve real-world challenges, all while building the critical-thinking and creative problem-solving skills that will serve them well for a lifetime.
Experimenting with Secondary Strategies for Struggling Learners  
**November 3, 2015**  
**Fee:** $75  

Learn strategies that assist struggling learners including your specialized population through differentiated instruction using secondary science process skills and concepts.

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STAAR Lift-Off  
**November 4, 2015**  
**Fee:** $100  

Preliminary data suggests that there is no significant difference in Science scores between reporting categories among the general population of students. STAAR Lift-Off sessions aim at increasing teachers’ knowledge and understanding of student expectations through data reports and giving teachers time to develop enriching improvements to existing lessons taught in each reporting category.

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G/T 6 hour update: Influencing Depth and Complexity in the Science Classroom (Grades K-8) (15-16)  
**December 1, 2015**  
**Fee:** $100  

In this workshop, participants will explore curriculum options in Science grades K–8, which emphasize interdisciplinary connections through overarching concepts, issues and themes as major organizers, and provide opportunities for meta-cognition—student reflection on the learning process. Participants will dive into strategies that will nurture collaboration and give students options for conveying their understandings. Educators will leave with tools needed to ensure that the curricular needs of their Gifted Students are met in the Science Classroom. NOTE: This session can count for a G/T Day 4, Day 5 or 6-Hour Update if not previously taken.

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Science Academies K-4, Part 2  
**December 2–4, 2015**  
**Fee:** $0  

Explore ways to improve overall science instruction and achievement in order to meet or exceed grade-level standards and ensure postsecondary readiness. Participants will engage in hands-on, student-centered lessons that are framed in the research-based 5E instructional model and provide connections to the science Texas Essential Knowledge and Skills (TEKS), College and Career Readiness Standards (CCRS), English Language Proficiency Standards (ELPS), and Response to Intervention (RtI). The training will prepare regional trainers to lead subsequent science academy sessions for grades K–4 science teachers and will include access to online resources through the Project Share Gateway.
Amplifying and Enhancing Science: Force, Motion, and Energy
December 9, 2015
Fee: $100

The training is a unique learning opportunity for teachers to conduct hands-on activities that enhance and amplify Reporting Category 2 of the State Summative Assessment. Teacher content, classroom connection, and Literacy will be the focus of the training. Participants will leave with DIY activities constructed during the training.

Hands-On Science in the Inclusive Early Childhood Classroom: Matter & Energy
December 14, 2015
Fee: $75

In this session, participants will experience ways to bring science into all parts of their inclusive early childhood classroom. Participants will engage in hands-on science activities based on the Pre-K Guidelines. Modifications for students with special needs will also be discussed.

Teachers will focus on the intersection of knowledge about Matter & Energy and develop their pedagogical content knowledge by having opportunities to learn about Matter & Energy in combination with analysis of student thinking about activities and instructional strategies for helping students establish life-long learning.
TO REGISTER

1. Go to www.esc20.net and click on the section titled iLearning.
2. Enter the workshop number into the search box or use the various search options.
3. If you do not have an iLearning account you will be prompted to create one after which you will be able to register for your selected workshop.

LIVING SCIENCE MATERIAL CENTER

Enhance student experiences!
Receive living materials and supplementary resources from the Living Science Materials Center. Every area and level of science curricula can be enriched through the Educational Resources Co-op. http://esc20.net/default.aspx?name=bhrs_LSMC.Home.
Our materials are TEKS aligned and encourage thinking outside the “curriculum” box.
For more information contact Charlotte Tondre at 210-370-5689 or charlotte.tondre@esc20.net

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