



SOUTHERN DELAWARE PROFESSIONAL DEVELOPMENT CENTER

Secondary Science Teaching Specialist
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SCIENCE CONTENT-SPECIFIC OFFERINGS OF THE SDPDC

FOCUS:

- Grades 6-12 in the areas of:
 - Biology
 - Earth Science
 - Physical Science
 - Chemistry
 - Physics
 - Integrated science

SERVICES:

- Data
 - Using data to guide instruction
 - Learning how to use available data from D.O.E. to identify areas of improvement
- DSTP preparation
 - Integrating sample DSTP questions into lessons
- Develop common assessments
 - Creation and implementation of common assessments to better improve instruction
- Common Workshops that focus on science-specific professional development
 - Current trends in science classroom technology
 - Available resources in science
 - More effective laboratory time
- Customized professional development
- Customized department assistance
 - Allow the department to identify their own needs
- Make industry and business resources available to teachers

(over)

- Creating inexpensive long-term student learning projects
- Specific actions to help teachers with students struggling in mathematics
- Best practices with diverse learning styles (specific to science)
- Unit alignment to GLE's and Standards (Non- Coalition Districts)
- Best practices in formative and summative assessments
- Availability to hundreds of science teaching websites
- Examination of current state of Department
 - Focus on Self-assessment and evaluation
- Alignment to Standards
 - 502 Alignment (For Non-Science Coalition Districts)
 - Vertical Articulation
- Incorporating Learning Focused[®] Solutions into lessons and curriculum
- Resources
 - Do we need any other resources?
- Safety
 - Compliance with Safety First Manual (Delaware Department of Education)
- AP program design/support
- Joel Barker's Implication Wheel
- Using technology in the science classroom
- Doing "better/cheaper" science labs
- Access to grants and grant writing
- Assistance with Science Olympiad
- Individual Teacher Support
 - Interpretation, Implementation, and Alignment of Standards
 - Open House Preparation
 - Teacher Observation Support
 - Parental Communication
 - Best practices
 - Website creation
 - Classroom management
 - Provide sources for lesson plans
 - Provide inquiry-based lab experiments and long-term projects
 - Online grade book systems
 - Assisting new teachers in the Mentoring Program