



...accelerating achievement in math, science and English

Mark your Calendar for LTF Training: June 16-19, 2009

Laying the Foundation (LTF)[®] is a comprehensive Mathematics, Science and English Pre-AP Training Program:



- Separate LTF trainings are provided for mathematics, science, and English.
- LTF works seamlessly in Kentucky classrooms through the skills crosswalk between LTF and Kentucky's Core Content and Kentucky's Program of Study (found at AdvanceKy.com).
- A school may choose to train its Pre-AP teachers in all three disciplines, or it may select a to train teachers in only one or two disciplines.
- The Kentucky Department of Education has approved LTF training for professional development hours.
- LTF is a three year program consisting of a total of 12 days of training (4 days/year for three years).
- It is advantageous for each participating school/district to have a completely-trained corps of LTF teachers (i.e. each teacher should be committed to attending and the school should be committed to supporting the teachers in attending all 12 days).
- For the first cohort of trainees, the training will begin **June 16-19, 2009**. The remaining 8 days of training will be offered by AdvKy during the summers of 2010 and 2011 (4 days each year).
- Training for the second cohort of trainees will begin with four days during the summer of 2009.
- Summer training allows teachers to use new knowledge to plan for the next school year.
- Workbooks, that accompany the LTF Guides, are used each training day in order to support teachers in immediate training-to-classroom implementation.

Benefits to Laying the Foundation[®]:

- LTF Skill Progression and Content Progression charts are tied to both Texas state standards and the National Science standards.
- Is an excellent support system for teachers who want to give their students the rigor that will prepare them for Advanced Placement classes and post-secondary schools.
- Establishes a trained corps of teachers within the school/the district.
- Creates an environment linking Pre-AP to AP, from middle school to high school.
- Contains content and instruction on how to teach high-level thinking skills in the context of the discipline.
- Provides classroom materials teachers can use immediately.
- Provides skill progression charts and foundation lessons that promote Vertical Team planning and success.
- Provides opportunities for teachers at all levels of experience to learn new content and teaching strategies.
- The 15 LTF Guides, prepared by master pre-AP and AP teachers, infuse rigorous coursework into existing math, science and English classes.

See <http://www.layingthefoundation.org/> for more information.



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Students benefit from the following through LTF

- Vertically aligned skills and lessons.
- Practice with timed assessments modeled on the AP Exams.
- Weaving of statistical analysis throughout math and science lessons.
- Use of technology (actual and virtual) and hands-on lab experience.
- Incorporation of mathematical analysis of data into science lessons.
- Emphasis on standards of performance.
- High expectations.
- Emphasis on analytical skills and including analytical writing in English.
- Begins skills such as text annotation and analysis as early as 6th grade.



LTF training is face-to-face teacher training provided by experienced classroom teachers, who

- Demonstrate lessons and conduct labs.
- Provide instruction on content and skills.
- Serve as mentors for teachers.
- Impart classroom management strategies.
- Model use of technology.
- Utilize authentic student samples in instruction.
- Make the connections between the Pre-AP course and the AP Exam.

Guides are a core component of the training program, which

- Are designed to help teachers connect Pre-AP classes to the analytical skills, content, and assessment strategies that will help students be successful in AP classes and other advanced coursework.
- Include skill progression charts for each course, model lessons, authentic student products, vertical team activities, sample tests and more.
- Come equipped with a CD of student materials for ease in duplicating.

LTF training includes access to additional online resources, which include:

- Diagnostic tests and activities for each course.
- End-of-Course test materials with student samples, scoring guides, and commentary.
- Webcasts on selected topics.
- Original lessons.
- PSAT*/SAT* prep materials.
- Materials for ELL (English Language Learners) students transitioning to English.

Future Online Resource for Science

- **Gender Equity in Science Classrooms:** In order to increase the number of young women in advanced science courses, LTF is incorporating gender equity strategies into the science training.
- **Virtual instruments will be available, including:**
 - A Virtual Microscope (in development)
 - A Virtual Spectrophotometer (in development)
 - A Virtual Gel Electrophoresis Apparatus
 - A Virtual Polymerase Chain Reaction Instrument

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