

P-20 School Partnerships: The Case of Lesson Study

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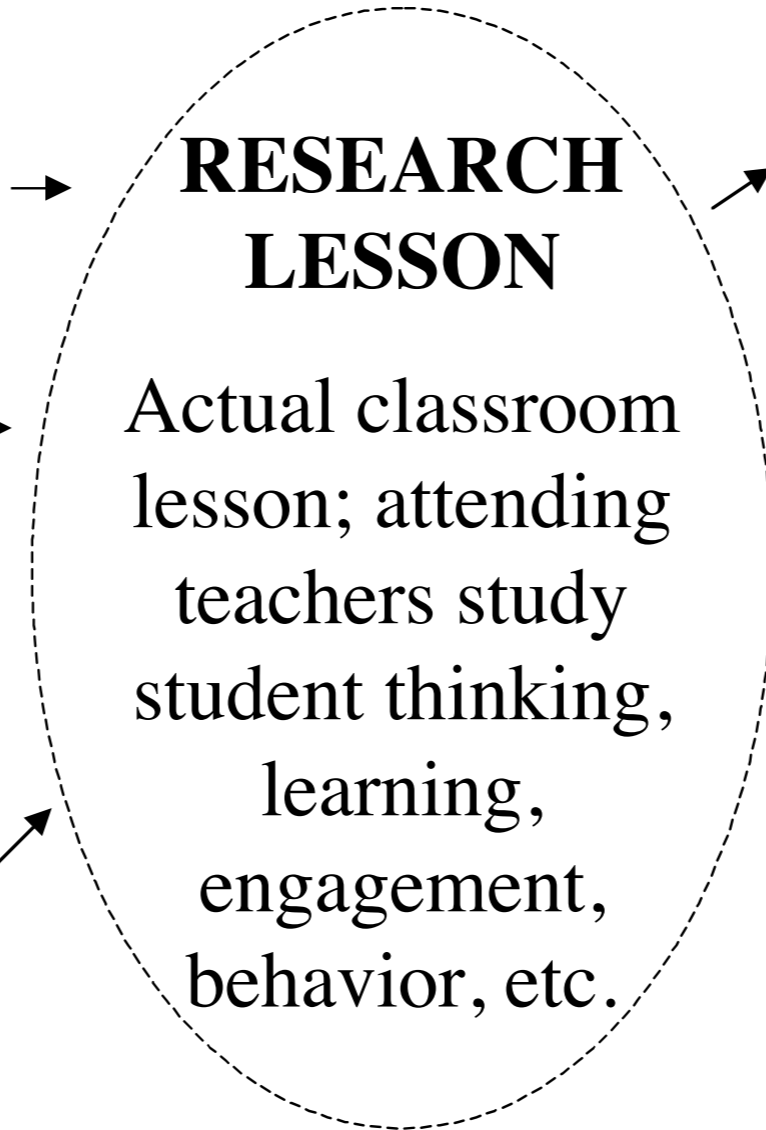
Lesson Study



Discuss Long Term Goals for Students' Academic, Social and Ethical Development

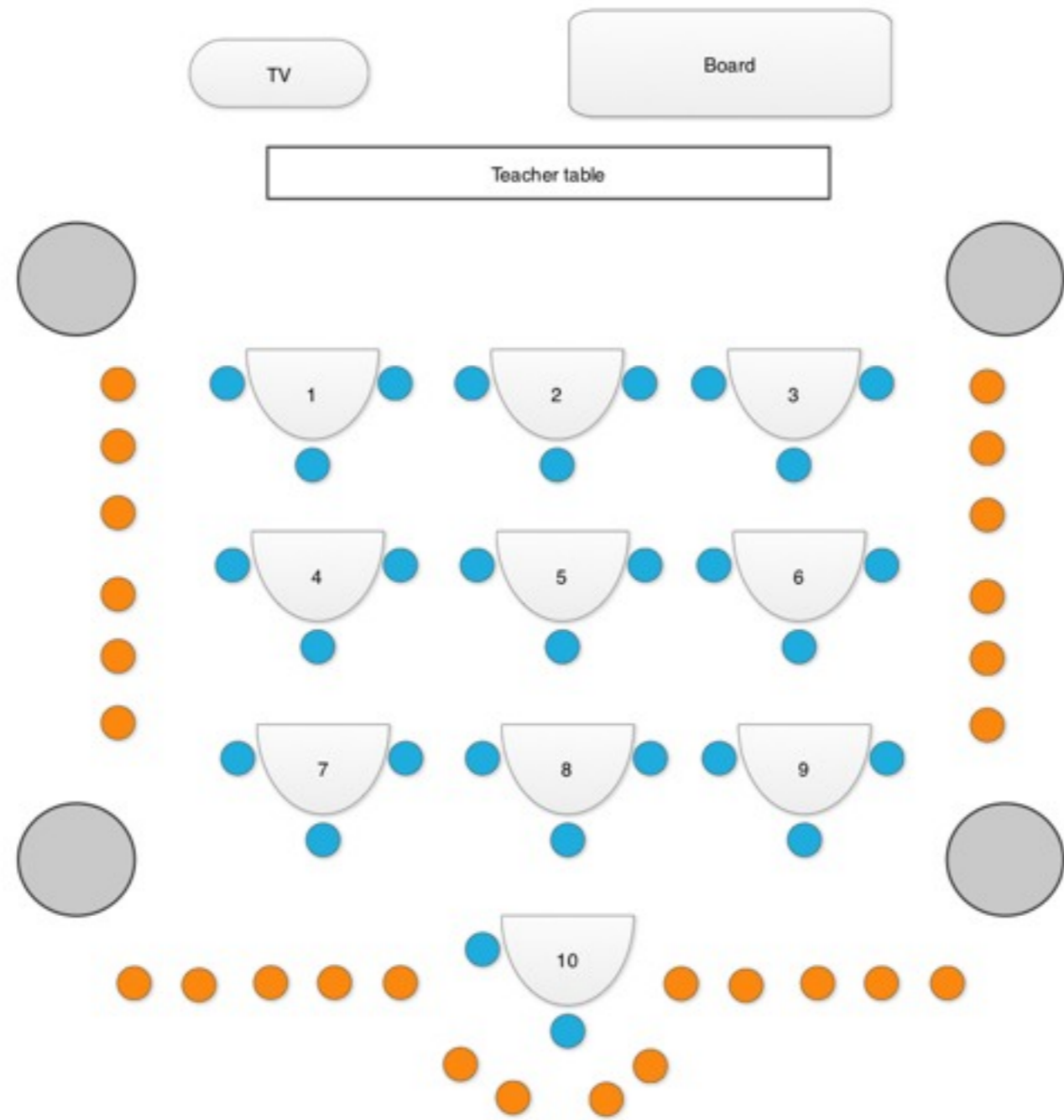
Choose Content Area and Unit
Discuss Learning Goals for Content Area, Unit and Lesson

Plan Lessons(s) that Foster Long-Term Goals and Lesson/Unit Goals



Discussion of Lesson
Discuss research lesson. Focus on evidence of whether the lesson promoted the long-term goals and lesson/unit goals

Consolidate Learning
Write report that includes lesson plan, data, and summary of discussion. Refine and re-teach the lesson if desired. Or select a new focus of study.



Sample seating chart for research lesson



Pictures from open research lessons

Jeff Bidwell
Debbie Casey
Sharon Dotger
Colleen Hall
Kathy Hammond
AnnMarie Lynch
Doug McCaffer
Kevin Moquin
Sue Osborne
Kelly Vaughn
Deborah Walsh

To be taught to Mr. Moquin's 4th grade class
May 19, 2011 6:00 pm
Willow Field Elementary School

1. Name of unit: Physics of Sound
2. Name of lesson: The lengths of objects and the sounds they make
3. State/national standards:
 - a. Benchmarks for science literacy
 - i. Vibrations in materials set up wavelike disturbances that spread away from the source. Sound and earthquake waves are examples. These and other waves move at different speeds in different materials.
 - b. National Science Education Standards:
 - i. *Interactions of energy and matter*
 1. Waves, including sound and seismic waves, waves on water, and light waves, have energy and can transfer energy when they interact with matter.
 - c. New York State Standards: MST 4: Science: Students will understand and apply scientific concepts and principles pertaining to the physical setting and living environment and recognize the historical development of ideas in science.
 - i. Performance Indicators
 1. 4.1.a Energy exists in various forms: heat, electric, sound, chemical, mechanical, and light.
 2. 4.2.b Humans utilize interactions between matter and energy. Mechanical to sound: musical instruments

Sample Plan to Guide Learning

lessonstudy.syr.edu

Important Considerations

- Involve as many as possible in setting a lesson study goal
- State your norms and practice one at each meeting
- Specify roles in the group
- Plan from the standards - read more than the one at your grade level
- Compare and contrast 2-3 curriculum materials
- Expect the first plan to take 5 hours to complete (after you've set goals and norms)
- Invite colleagues to your lesson
- Debrief as soon as possible
- Write down your thinking