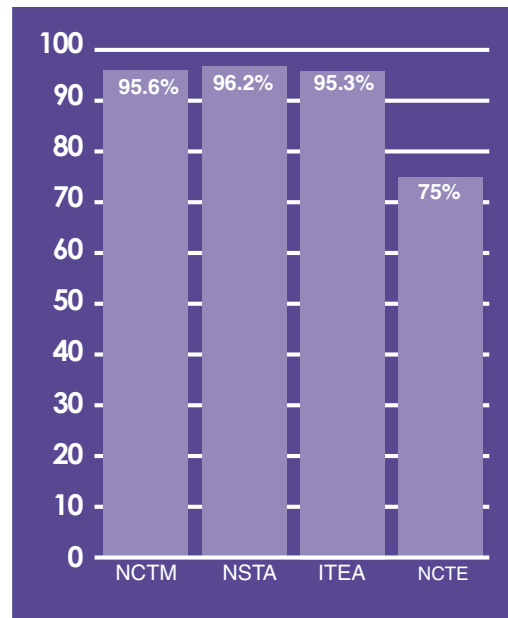


MST INTEGRATION

Proven
Standards-Based
Middle Level
Curriculum



Shown above, a sample Synergistic Systems lab with 16 Modules meets a high percentage of state and national standards.

The revolutionary Synergistic method engages teams of two students for seven class periods. After completing the seven-session Module, students change partners and workstations to experience another relevant topic. The curriculum enhances and provides integrated hands-on, minds-on experiences.

Synergistic Systems benefits students in many ways. It:

- Increases test scores.
- Addresses multiple learning styles.
- Utilizes cooperative learning.
- Integrates hands-on, minds-on activities.
- Delivers on-task, engaged learning.
- Increases achievement of at-risk students.
- Includes problem-solving activities.
- Is developed by teachers.
- Includes teacher development.

Synergistic Systems curriculum includes Modules for middle level mathematics, science, and technology.

Scientifically Based Research
Independently conducted studies include:

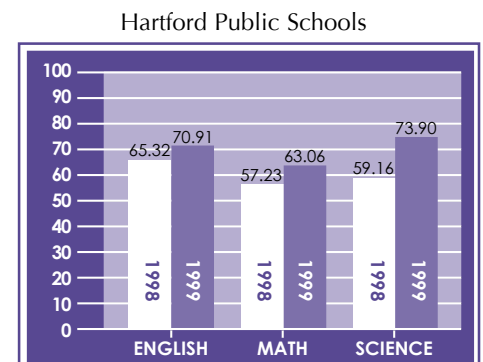
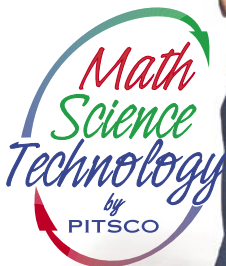
Joplin, Missouri, Math Lab Study
Students in a Synergistic Systems math lab performed on par with students who completed traditional math curriculum.

Doctoral Thesis from University of Illinois, Urbana-Champaign
Student doctoral thesis showed that Synergistic Systems has a positive impact on at-risk students.

University of Illinois Study
Girls' interest in science and technology matched that of boys after completing Synergistic Systems labs.

Master's Thesis from Pittsburg State University Student
Showed an increase in students' ability and comfort level working in teams and technology after completing a Synergistic Systems lab.

Augusta, Kansas, Science Study
Students who completed a Synergistic Systems science lab exceeded state averages on standardized science tests.



Connecticut Business and Industry Association Study of Hartford, Connecticut Public Schools
Students who completed Synergistic Systems labs showed increases in English, mathematics, and science scores.

MST INTEGRATION

A school may implement the lab to fit within a variety of schedules. Students may spend six weeks, a quarter, a trimester, a semester, or an entire year working in the Synergistic Systems MST Integrated lab. The number of Modules required depends upon the number of students to be served and the length of time the students are in the lab.

Sample MST Lab

1. Agriculture: Soils
2. Alternative Energy
3. Applied Physics
4. Astronomy
5. BioEngineering
6. Body Systems
7. CADD
8. Creative Solutions

*NCTM Standards Addressed – 95%

*NSTA Standards Addressed – 96%

9. Ecology
10. Environmental Issues
11. Genetics
12. Gravity
13. Heat & Energy
14. Logic & Reasoning
15. Package Design
16. Statistical Analysis

*ITEA Standards Addressed – 95%

NCTE Standards Addressed – 75%

Sample Mathematics Lab

1. Astronomy
2. BioEngineering
3. Confident Consumer
4. Genetics
5. Graphic Communications
6. Gravity
7. Landfills
8. Light & Lasers

*NCTM Standards Addressed – 100%

*NSTA Standards Addressed – 64%

9. Logic & Reasoning
10. Music & Sound
11. Package Design
12. Personal Finance
13. Simple Machines
14. Statistical Analysis
15. Water Management
16. Weights & Measures

*ITEA Standards Addressed – 84%

NCTE Standards Addressed – 75%

Sample Science Lab

1. Alternative Energy
2. Animals
3. Astronomy
4. Body Systems
5. Dynamic Earth
6. Ecology
7. Environmental Issues
8. Forces

*NCTM Standards Addressed – 66%

*NSTA Standards Addressed – 100%

9. Genetics
10. Heat & Energy
11. Immune System
12. Life Skills
13. Light & Lasers
14. Material Science
15. Microbiology
16. Oceanography

*ITEA Standards Addressed – 84%

NCTE Standards Addressed – 75%

Sample Technology Lab

1. Agriculture: Soils
2. Alternative Energy
3. CNC Manufacturing
4. Computer Graphics & Animation
5. Computer Technology
6. Electronics
7. Engineering Towers
8. Food Science

*NCTM Standards Addressed – 77%

*NSTA Standards Addressed – 86%

9. Genetics
10. Graphic Communications
11. Immune System
12. Interior Design
13. Organism Reproduction
14. Package Design
15. Robots
16. Rocketry & Space

*ITEA Standards Addressed – 100%

NCTE Standards Addressed – 75%

*Grades 6-8 Standards