Farminaton Observer

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e Lois Kluver and Gloria Tweadey.

Are Loss Networks and the Cooper said. "We don't stress words — we stress concepts," Cooper said, adding that the program is designed to help students in both grades with decision-making when

Staff teams up to help teach science



Kenbrook Elementary filth graders Sarah Kutschke (loft), Stephanie Hancock and Hana Lekocaj work on a heat transfer experiment.

By Casey Hans staff writer

EACHING SCIENCE to Farm-ington Public Schools fourth and flith graders emphasizes hands-on experience and a

hands-on experience and a team approach. "We consider it teaming with the Effectner," said Doug Cooper, Farming-ron science coordinator, discussing the two-year consulting pilot program for fourth and lifth graders, which became idistrictwide this year.

traditional textbook programs.

"We have the advantage of two peo-ple (teacher and consultant) to answer all the students needs and questions." Three full-line science consultants work with fourth and fifth grade teacher ers enhancing the science consultants once per will be science assessment once per will be science as a science assessment weekly planners of activi-ties, roles, objectives and followup chasroom tideas. Teachers can then mix these hands-on specialties with

IN ADDITION, the consultants help IN ADDITION, the consultants nelp Cooper order and organize hands-on materials stocked at the district's Sci-ence Resource Center located in Wood Creck Elementary School. Live things are also cultured at the center for classroom use.

classroom use. Author of the program is Kathy McAdaragh, current consultant who began piloting the program in 1993-84 at four schools. Newly hired consult-ants with "strong science" backgrounds

Fifth graders take a daylong trip to Proud Lake Recreation Area, where their science skills and learning are put to good use, Cooper said.

to good use, Cooper said. PRIOR TO entering the science con-sultant program at the fourth grade level, each third grader experiences an organized program at the district's out-door center. "Science in first through third grades is entirely in the realm of the class-room teacher, with my help," Cooper added. "The teachers in all grades re-main the important element" of the science program. "An understanding of conservations and environmental protection" is susceed in all grades, Cooper added. "The teachers in all protection" is susceed in all grades, Cooper added ind inchand neur daily lives." The consultant program will receives pacinal recognition at a meeting of the National Science Teachers Mar. 27-29 in California, Cooper added. IT WAS also recognized recently by

IT WAS also recognized recently by the Michigan Department of Education as a "designated exemplary program," he said.

"Farmington's sort of a maverick now," said Joseph Riley, science spe-cialist for the Michigan Department of Education. He estimated less than 15 districts in the state have a full-time science coordinator.

He believes a mix of the traditional book teaching and hands-on experience is necessary for a good science pro-gram. With current high-tech indus-tries science knowledge, will become more important in the future, he added.

"The future is going to require a bet-ter understanding of how things work - science is not going to be just for a few as it is now," Riley said. roles. In the fourth grade, students learn measuring and interpreting techniques in tearna. They help teachers decide when to add food to plant and aniumal experiments, how much food to give, and chart scientific response, Cooper

NEXT YEAR'S Michigan Education Assessment Program (MEAP) tests for third, seventh and 10th graders will in-clude a science section, which Riley said will show each district its weaknesses at various levels. Cooper is building a "distinct, Farm-



Gioria Tweadey, one of Farm-ington Public Schools' newly hired science consultants, in a newly Kenbrook Elementary fifthgrade class.

grace class. Ington curriculum," although his con-cepts are taken from other programs, including the hands-on national Science Curriculum Improvement Study (SCIS) program. "We have some unique things we think are good." he added. The inception of the science consul-ing program frees Cooper for liaison work with other educational levels in the district. Middle and high school-level programs are presently being studied, as well as possible expansion into the 3rd grades with the consulting program, be said. "Another form of support is needed for tat and arg drase," Cooper added. "The achool board, for instance, wante each achool to have a flavor." Science-oriented activity in recent years in leading to other activities, await eas achool to latt, a the elementary and middle schools, he added.

"BE MY

Mr inkwell

Inkwell provides news and information about Farmington-area primary and second-ary schools. The column appears monthly throughout the school year as part of the Ob-server's "School Page." Send news items to: The School Page, Farmington Observer, 3203 Grand River, Farmington 48024. Include a tele-phone number where a contact person can be reached during the day.

reached during inteduy. • GRANT AWARDED The Michigan State Board of Education has awarded a \$500 mini grant to Elizabeth Wiel, a classroom teacher at Farrinington Public Schools' Hawthorne Learning Center. The school board approved \$90,878 in mini grants to 157 teachers from 102 school districts. The grants were the first direct-to-the-classroom aid provided by the school board. They are designed to provide individual teachers with financial assist-ance for use in special classroom activities or proj-tests. ects.

SCHOOLS CELEBRATE

SCHOOLS CELEBRATE Area private schools celebrated Catholic Schools Week Fcb. 24 with various activities involving staff, students and parents. One parent of a student at St Pablan School In Parmington IIIIIs viewed "walls full of special prof-icuts" during her visit. The theme for area schools was "A Rainbow of Excellence." Schools hosted spirit days, open houses and op-preciation days for principals, staff and the com-munity. Some daily themes included challenging youth, working for peace and respect for life.

youn, working for pace and respect to the.
SOUND OF MUSIC
Farmington Public Schools will host this year's Michigan Schools Band Orchestra Association's (MSBDA) district competition March 74 and 14-15 at the three district high schools and at Dunckel Middle School. Bands from Oxkland and Livington Gounties will play continuously each day between 8 4 m and 5 pm.
The MSBOA is a 23-year-old professional association's more than and orchestra directors. Farmington Test host the district competition five years ago, according to music coordinator Paul Barber.

MEMORIAL DONATION

MEMORIAL DONATION New adaptive playground equipment will be pur-chased for Cloverdate Developmental Training Center with a \$1,000 donation accepted by the Farmington Board of Education Jan. 14. The gift was given by Leita Guie as a memorial to her son, Don, a district employee until his death due to leukemia.

ASSISTANT APPOINTED Laura Zalae was recently appointed program as-sistant at Cloverdale Developmental Training Cen-ter. The Farmington Board of Education approved ber hiring Jan. 14.

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• VOCAL HONORS Six Farmington-area high school students were elected for the Michigan School Vocal Association 24. Walled Lake Consolidated Schools students won't be off again until spring broak • •

State Honors Choir from a Ileid of 1,000. The six are Jennifer Dautermann and Carrie Brown of Farmington Harrison Hig School and Lin-da Abar, Dean Feldpauer, Jan Rithamaki and Laurie McKinnon of North Farmington. They appeared in concert Jan. 18 at Hill Audito-rium, Ann Arbor.

● PRINTING BOWL Parmington High School hosted preliminary rounds of the ninth annual Printing Bowl Quiz Jan. 18. The quiz challenges fluw-person teams to an-swer graphic arts-related questions. The team an-swering the most questions correctly wins. The final round of competition took place at the sponsor's business, the Detroit Club of Printing House Craftsmen, Jan. 21.

House cratesmen, Jan. 21. • COMMUNITY SEMINAR Local real estate agents and personnel directors for area companies can receive an update on the Farmington Public Schools at a breakfast slated for 8 am. Wednesday, March 8, at the Warner Mid-lis School, 3003 14 Mile, Farmington Hills, ac-cording to Paul Barber, a member of the school district's marketing committee. The two-hour seminar is designed to provide in-formation for distribution to new area residents, he said. Each person attending will get an informa-tional packet.

tional packet.

THOST packet: **THACHERS APPOINTED** Five new teachers were appointed by the Farm-ington Board of Education Tuesday, Jan. 28. All began work during the month of January. Forest Elementary that two new teachers. Teach-ing third grade is Judy Barcley, and new to the fourth grade is Dolores Harris. New mathematics teacher at Farmington High School is Marie Ara-tari. Marion Brewer is the new second-grade teach-er at Kenbrook Elementary. and Laske LaCosse is teaching first grade at Larkshire Elementary. Janice Lewis resigned as peedia deucation aide at Eagle Elementary, effective Jan. 24.

SIGNUP REMINDER

SIGNUP HEMINDEH Kindergarten registration for the 1986-87 school year is scheduled the week of March 3, during regu-lar school hours, at all Farmington Public Schools

lar school noirs, at an Parimiguon Paulic Schools Parents will need to complete registration forms and present cach child's birth certificate at their local elementary school office. Information about preschool testing and the kindergarten orientation program will be given to parents. A child must be 5 on or before Dec. 1, 1986, to be eligible for kindergarten attendanco.

 WINTER BREAK
 Farmington Dublis WINTER BREAK Farmington Public Schools students will have a winter break from Thursday, Feb. 20, through Mon-day, Feb. 24.
 In the Clarenceville Public Schools, winter break will be from Friday, Feb. 21 through Monday, Feb.



Uiorgia, Boverly Listina Becenty Hills, in the short into mission of was created, has become the favorite forgance of fashion-conscious scent conneissous everywhere. So make this the occasion to wrap that yellow and white package with red women, 3 cz, 440. Hills, in the short time since it



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