## Schools add specialists

one month before school started.

Now two years into the science sultant program, educators seem to be about the science of th sultant program, educators agree stu-dents seem to be more enthusiastic about learning science. "They are always excited when they come in," MacAdaragh said.

come in, "MacAdaragh said.

BECAUSE THERE are few problems with teaching science in the first, second and third grades, MacAdaragh's job has been targeted toward helping fourth and fifth grade classes.

"The material and ideas are more complex in the fourth and fifth grades," MacAdaragh said.

Although she goes to the class to teach science, MacAdaragh does not replace the classroom teacher. Her role is to act as a consultant who leads students in particular leasons. The regular classroom teacher during the week follows up and continues the lesson.

son.
"When I'm there is not the only time
they got science," MacAdaragh said.
Before arriving in the class on her
scheduled day, MacAdaragh provides
the teacher with a plan of the icoson

about spectralists.

consultant and the help of SCIS, procession locations the role or involvement expected of the classroom teacher. The (classroom) teacher at the come of the classroom teacher. The (classroom) teacher at the come of the classroom teacher. The (classroom) teacher at the come of the classroom teacher at the come of the classroom teacher. The (classroom) teacher at the class of the classroom teacher at the come is the students, including the first through third graders, use a science is the 'hands-on approach."

For example, MacAdaragh's lesson for fourth graders at Knebrook Edmentary last week involved motion and speed.

Instead of trying to grasp these principles solely through a textbook, students can get on the floor with a plastic ramp and sace ball to see what happen to be a student of the company of the company



Kathleen MacAderegin, science consultant for the Farmington schools, leads a class through problem in physics.

## Kids are learning science a new way

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Continued from Page 1
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dissatisfied, was that
"Mait educators realized was that
"Mait educators realized was that
stream to being taught "prostream to record the stream to
conduct research, roo collect data and
conduct research, roo collect data selecte
Educators also realized that selecte
must be established as an important
academic course in elementary
schools, "which it has not been," Cooper added.

That's when district educators decided to teach sclence using the "hands-on
approach" by which students actually
become involved with science rather
than learning strictly from a textbook.
The hands-on approach is also a method of teaching students how to think
and to figure things out. and to figure things out.

"THE HANDS-ON approach to science is really the most effective approach," Freedman said. "It's more than just reading. They are actually

this just reasong, incy are actuary doing.

"One of the greatest values of learning science is learning to think," he said. "It's got to help their thinking processed in the way through school."

The district seven or eight years ago switched to the Science Curriculum Improvement Study (SCIS), a "handson" program.

Elementary teachers using SCIS also had the help of a science center set up by Cooper. The science center at Wood-

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creek Elementary is like a warehouse of props and materials teachers seed in teaching science.

While SCIS is a hands-on approach which involves actually doing rather than tearning solely through a text-book, the elementary classes are also provided with a Heath science text-book. Cooper said.

They suggested using a science of science is 50-percent content and good science is 50-percent hands-on, "Cooper said.

While teachers became comfortable teaching science with the help of SCIS through the flury grade, the material in fourth and fifth grade became in the fourth and fifth grade provided with the fourth and fifth grade provided with

Ington school board, which had set up a \$100,000 curriculum fund, asked educators to submit ideas for "innovative programs." Freedman said.
"We folk let's get a selence specialist into the classroom," Freedman said.
"We ran it as a pilot (program)."
When students, parents and teachers responded positively to the pilot program with Kathleen MacAddragh as the consultant, the school board decided to fund it for a second year.

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