





HANDS ON Robin Moore above, helped design a park where children plant wire grass in the longleaf pine forest, far left; build a log cabin, center, and leap from play equipment like Evan Long, left.

Tutored by the Great Outdoors: A Greening of the Asphalt

By ANNE RAVER

SOUTHERN PINES, N.C. - The play-Elementary ground at Southern Pines Elementary School used to be four acres of thorny, bar

ground at Southern Pines Liementary School used to be four acres of thorny, barren land and some rickety play equipment. School used to be four acres of thorny, barren land and some rickety play equipment. Damita Nocton, a first-grade teacher at the school, which has 569 pupils in kindergarten through third grade. "They were confined to a little square of asphalt, and the rest was just sandspur and cactus." Children called it the Desert. "We saw a lot of aggressive behavior, because they were bored and unhappy," Ms. Nocton said. But these days, the Blanche Carter Discovery Park — renamed in honor of the beloved principal who returde just as renovaries. The property of the purple moster," as they call a challenging but inviting set of play equipment where they can leap, hang, climb and run, blowing off steam and exercising those gross motor muscles. They can tear down the sandy track that circles the professional-grade socer field. Or maybe they head toward the log of the professional-grade socer field. Or maybe they head toward the log. track that circles the professional-grade soc-cer field. Or maybe they head toward the log cabin the third graders built, or to the blue-berry maze planted by the first grade. Some might wander to the top of a grassy hill where the Earth Buddies meet. Or the pile of sand dumped by the edge of the woods, looking for sharks' teeth.

looking for sharks' teeth.

This grand space is a work in progress, a
collaboration of children, parents, teachers
and community members, guided by Robin
Moore, an urban planner who teaches in the
school of design at North Carolina State
University and has specialized in play areas
for 30 years.

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The Moore is at the forefront of a growing movement in American education-that seeks to reconnect children with nature. California has vowed to put a garden in each of its 8,000 to reconnect children with nature. California has vowed to put a garden in each of its 8,000 schools, and has about 1,550 so far. Maryland encourages every new school or renovation project to include natural habitats that are accessible and are incorporated into the curriculum. Ohio, Florida, New Hampshire, Ulah and Vermont have similar plans, and Ulah and Vermont have similar plans, and work of the curriculum. Chio, Florida, New Hampshire, Ulah and Vermont have similar plans, and manufactular plans and the curriculum. Chio, Florida, New Hampshire, Vinatural Learning, and the control of the children of the curriculum consultation of the control of the children of the curriculum consultation of the children of the control of the children is curriculum strongest, clearest voice right now in this country," said Dr. Roger Hart, the director of the children's Environments Research Group at the City University of New York. The children is Environments Research Group at the City University of New York. The children of the childre

As the Federal Government pushes for As the Federal Government pushes for higher test scores and "accountability" from teachers and school systems, and about a dozen states have halved or even canceled recess as too frivolous an activity for children, educators like Mr. Moore maintain that outdoor activities, whether directed or "free" Jaye, encourage observation and creative thinking.

And though there are no comprehensive studies yet to prove that such environments improve test scores, schools like Southern Pines Elementary report a marked reduction in violence and rising academic per-

formance.
"Our incidents and fights have really gone
down," said Mary Scott Harrison, the principal. "And our test scores have improved big

down, "said many scott an "issue, me principal," And our test scores have improved big time."

In four years, the percentage of children meeting or exceeding proficiency levels in math and reading rose to 79 percent from 60 percent, she said. The school is aiming for an

80 percent proficiency rate this year, she added, "which will make us a school of distinction in North Carolina." She called the pupils' performance remarkable, consider-ing that many entering kindergarten "don't even recognize colors or know their num-

bors."

On any given day at Southern Pines Elementary, you may see children planting native grasses in the longleaf pine forest near the playground, peering at birds through a bird blind, making musical instruments from sticks or testing the acid-alkaline balance of water from a storm sewer as the collect day for a variety examine property.

line balance of water from a storm sewer as they collect data for a water quality project. The park has become fertile ground for what Mr. Moore calls "natural learning." "I'm intrigued by how this place has become a place of imaginative play," he said as, from a discreet distance, he watched children fooling around with logs and wood children fooling around the logs are well as the logs are well

Where trees grow, so do young minds.

environment, and the kids will adapt it to something," he said. Like pretending the cabin is a spaceship, and the pieces of wood are transmitters. "Hello! Hello! Coming in!" they shout as they are

are transmitters "Hello! Hello! Coming in!" they shout as they run among the strubs and trees behind the cabin.

One afternoon Mr. Moore watched a group of 7-year-olds, boys and girls, black and white playing horse. "They were riding each other, galloping around that circle of logs by the cabin." he said "It was very positive social action. And it doesn't happen on a hard riders where like are breef."

the cabin," he said. "It was very positive social action. And it doesn't happen on a hard place where kids are bored." Mr. Moore, 62, grew up freely roaming the hills and woods of Kent in England, poking around old mines and abandoned military camps with his pals. They built under ground fortes and leapt from the pitable branches of the said leapt from the pitable branches of more pitable of the pitable of t

"That culture of childhood that played outside has gone and been replaced by after-school programs," Dr. Hart said. "If you're rich it's programs; if you're poor it's TV, so you're trapped indoors."

Mr. Moore studied architecture at London the studies at London the studied architecture at Londo

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STRIKING SPARKS Story time near the student-built log cabin.

Blanchie Carter Discovery Park

MASTER PLAN Based on sketches and ideas of children, parents and teachers.

century tools under the guidance of par-

century tools under the guidance of parents, and use grown-up saws to cut logs for the campfire.

In the longleaf pine forest, a forester from the State Fish and Wildlife Service helps third graders saw down young scrub oaks to hird graders saw down young scrub oaks to make the saw down young all teaches to create at least six queens related to the environment outside the school doors

and is encouraging them to read the works of Howard Gardner, the Harvard cognitive psychologist whose theory of multiple intelli-gences includes sensitivity to the natural world

world.

All this seems light years from the day she and Bruce Cunningham and Ann Petersen, who had decided to send their daughter, Katie, to kindergarten at Southern Pines Elementary, with its ebullient 50-50 mix of

black and white children, rather than to the mostly white Episcopal church school in their own neighborhood. Both lawyers, they were impressed not only with the school's racial mix, but also with its teachers and the charismatic princi-pal, Blanchie Carter.

pal, Bianchie Carter.

"The school was a very good school, but it had a stigma," Ms. Petersen said. "When-ever the local paper reported what little bit of drug or violent crime we have here, it would say it was coming out of the school, which is known to be in a high crime district."

The incidents were actually limited, parents say, to a street three blocks from the school. And the only real danger that Ms. Petersen and Mr. Cunningham could see was in the rickety equipment on the playground and the thorny weeds that kept the children cooped up — and fighting — on the one clear patch of hot asphalt.

The couple called it "the pits," recalled

Mrs. Harrison, who was then the assistant principal. So Ms. Carter promptly invited them to head up the new playground com-mittee. "The initial plan was to raise \$40,000 for a piece of equipment, stick it into this desert and call it a playground," Ms. Peter-sen said.

But then Mr. Cunningham discovered the work of Mr. Moore and talked him into visiting the school. He arrived with slides of his "environmental yard" in Berkeley, a playground that children and grown-ups had transformed from an acre and a half of hardtop into a natural landscape complete with woods and stream. He laid out some of his ideas about natural learning and was

his ideas about natural learning and was struck by the spirit of community at Southern Pines Elementary.

So he agreed to do a master plan. Everybody wanted trees, grass and new play equipment. But Mr. Moore's plan considered circulation patterns — how people flow through a space — and made sure there were various active and quiet places all through the site.

Everyone worked together on the principles of universal design, so that a child like.

ples of universal design, so that a child like, Evan Long, who has a learning disability, could leap from a low platform in the purple monster with as much joy as his friends who

monster with as much joy as his rirends who were jumping from higher spots.
Nilda Cosco, a play therapist trained in Argentina, guided parents away from the Swiss chalet they wanted for a playhouse.
"Build your own culture," she counseld them, so they decided to build their own log cabin.

cabin. Mr. Cunningham recalled that when he suggested putting snow fencing around the young sycamore trees the children had helped plant near the play equipment, Mr. Moore shook his head and said, "Get each class to adopt a tree, water it and measure it, and you won't have any trouble with vandal-ism."

m. Ms. Nocton has watched her first graders

ism."

Ms. Nocton has watched her first graders become more observant as they have planted a birt habitat and a butterfly garden de birth between the head of the habitat and a butterfly garden. They bring me things, like seedpods, egg-shells and feathers, "she said." They tell me about a special place where they heard a butter of the devironment. The violence plummed as soon as the mey park opened. "Before the service where he shool as much," she she d' "They didn't have a sense of ownershly. Now they are actively involved in its development."

Madie Davis, a counselor for the school who has worked in this neighborhood for 15 years, has noticed an increased sense of pride among blacks in the community, and more families going to the schoolyard to jog or walk. She finds herself using the park during counseling sessions with troubled children, "because it is a serene, peaceful environment and they are more subject to opening up."