Pinehurst Primary School in the Shoreline School District No. 412 was late in opening in 1950, as workers scrambled to complete the painting and other last-minute details. Although it was just a K–3 facility, it opened with 230 students.

By 1952, attendance had grown so much that the school was forced into double sessions (see Northgate School). Plans for an addition were hurriedly started. Shortly after construction began, the school became part of the Seattle School District. The school was expanded by four classrooms and an auditorium-lunchroom. The configuration also changed to a K–6 curriculum, and enrollment at Pinehurst Elementary shot up to almost 400. In 1953, kindergarten classes were forced to move to the Pinehurst Annex established in the Victory Heights Club House at 18th Avenue NE and NE 105th Street.

In September 1954, five portables were opened on the school playground, and the annex was closed. Enrollment peaked that year at 560. Portables remained until September 1958 when a second addition opened with six more classrooms and a gymnasium. In 1969–70, two special education classes were added.

By July 1973, talks were underway on the need to close some of the smaller schools, such as Pinehurst. Pinehurst began the next school year with 270 regular students and three classes of learning-language disability students.
At this time, the 4.5-acre tract west of the school was slowly taking shape as an outdoor classroom with the planting of approximately 250 trees. A teaching station, large enough for a single class, was readied. In September 1974, a portion of the outdoor classroom was leased to the City of Seattle for use in the P-Patch Program.

In September 1976, Pinehurst was readied to absorb about 140 students from Northgate, which had closed the previous spring. The two learning-language disability classes were moved to Sacajawea. Six days before school started, Northgate was reopened, leaving Pinehurst with five empty rooms. Enrollment fell to just 196 in 1980–81 and Pinehurst was closed as a regular elementary school.

In September 1984, Alternative School #1 opened at Pinehurst, having moved from its previous home at Gatzert. The building also housed one of the district’s Parent Information Centers.

Today, Alternative School #1 specializes in learning through experience. All classes (K–8) include a mix of grade levels with fewer than 25 students per class. Kinesthetic (hands-on) and visual learning styles are the usual techniques. An environmental education program, including a wildlife habitat, has won national and local awards. Parent participation, including work on drama productions, is another key feature of the program. Over 100 days of the year are spent off-site on field trips. Recently the school has developed a maritime program in which students build and race model sailboats and canoes. It is the only public school in the country with a yacht club.