Federal school reform mandates and open enrollment policies have challenged U.S. public school leaders to find and implement innovative improvement programs. Research has shown effective professional development that is targeted to student, teacher, and school needs is essential to implementing new programs. The purpose of this qualitative case study was to illustrate the interconnectedness of adult learning theory, targeted professional development, and the creation of professional learning communities during the implementation of the International Baccalaureate Primary Years Program at Southeast and Midtown Elementary Schools in the Midwestern U.S. The conceptual underpinnings of the study were adult learning theory and learner-centered theory for adults. Research questions developed investigated the extent to which staff members perceived their professional learning activities supported their adult learning needs. The data indicated targeted professional development activities at both school met the adult learning needs of the teachers and professional learning communities were formed. Data and discussion of findings of this investigation would be useful to school leaders seeking guidance with implementing school improvement models.