USE PATTERNS OF BREAKOUT SPACES AT ROOSEVELT HIGH SCHOOL

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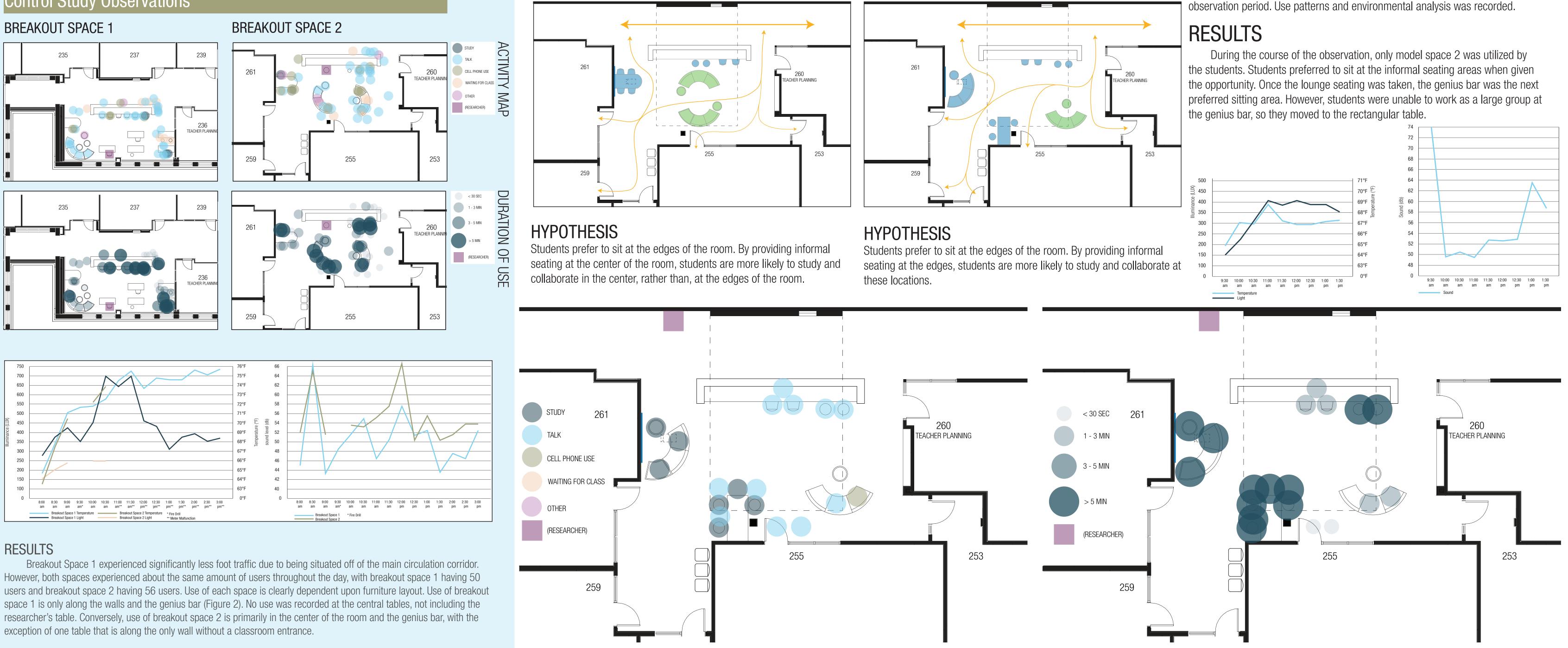
ABSTRACT

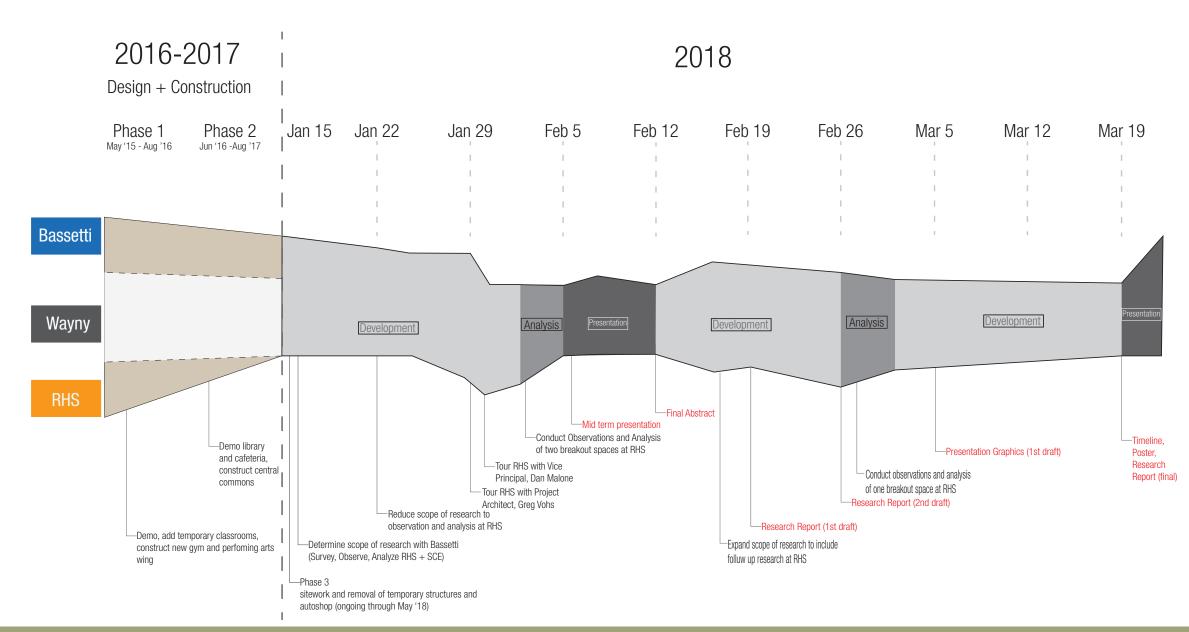
The objective of this research is to observe and analyze the use patterns of flexible breakout spaces at Roosevelt High School. Use patterns are recorded through observation of movement, behavior, length of stay, and activity. Environmental analysis of light, sound, and temperature in the breakout spaces were recorded. Two observational and analysis studies were recorded with users typically spending an average of one minutes or less in the spaces, with cell phone use as the main activity. An additional observational study, several weeks later, utilized a model for breakout spaces. Some findings show correlations with learning pedagogy of breakout spaces and design intent, while others do not. This research aims to understand the effectiveness of the design intent of breakout spaces as determined by student-centric learning pedagogy.

METHODOLOGY

Student-centric learning spaces emerged in the 1970s and were largely based on the work of Vygotsky. According to Vygotsky, "remembering and application of knowledge had to be situated in the student's lived world in order to become authentic learning (Dovey and Fisher, 2014)." That is to say, students 'construct' meaning of knowledge in a social context. Informal learning spaces, such as breakout spaces, have become programmatic elements in educational design because they are spaces for social activity for small groups. Two breakout spaces of the recently remodeled Roosevelt High School, by Bassetti Architects, have been observed and analyzed over the span of two eight-hour days to understand its effectiveness as a student-centric and informal learning environment. Utilizing a model for breakout spaces, additional observations of one breakout space was recorded for a comparative analysis of use patterns.

Control Study Observations



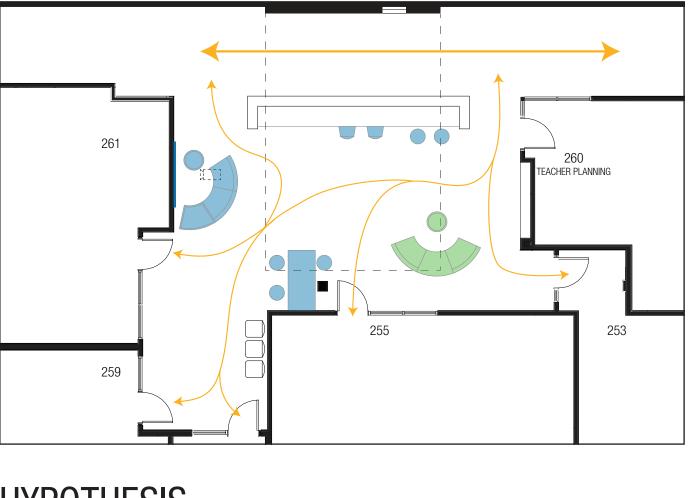


Breakout Space Model (Linking Pedagogy and Space)

Breakout spaces provide lounge areas, small study rooms, widened corridor spaces that allow gathering away from formal learning activities.

MODEL SPACE 1

MODEL SPACE 2





METHODOLOGY

Breakout space 2 from the control study was chosen for further study. The breakout space model from *Linking Pedagogy and Space* was used. This model closely relates to the exisiting conditions and furniture of Roosevelt High School. Although small study rooms do not exist at Roosevelt High School, furniture groupings could suffice.

Each model space was observed for one class period. Of the four classrooms surrounding the breakout space, two classes would be in session for each of the observation period. Use patterns and environmental analysis was recorded.

