

Auditory Environments Project

A. **Pediatric Setting:** Prince Edward Elementary School Cafeteria

- **People Present:** 1st grade students (28), teachers (3), cafeteria workers (4), Courtney, and Aspen
- **Date:** 3/11/19
- **Time:** 12:30pm – 1:00pm
- **Person Who Provided Permission:** Mrs. Eiban
- **Arbitrary Listener:** Student conversational partner
- **Arbitrary Speaker:** Student speaking

B. **Geriatric Setting:** Charley's Waterfront Café Sunday Brunch

- **People Present:** Hostesses (2), customers (25), waiters/waitresses (6), Courtney, and Aspen
- **Date:** 3/24/19
- **Time:** 11:30am – 12:30pm
- **Person Who Provided Permission:** Hayley Temple
- **Arbitrary Listener:** Conversational partner
- **Arbitrary Speaker:** Person speaking

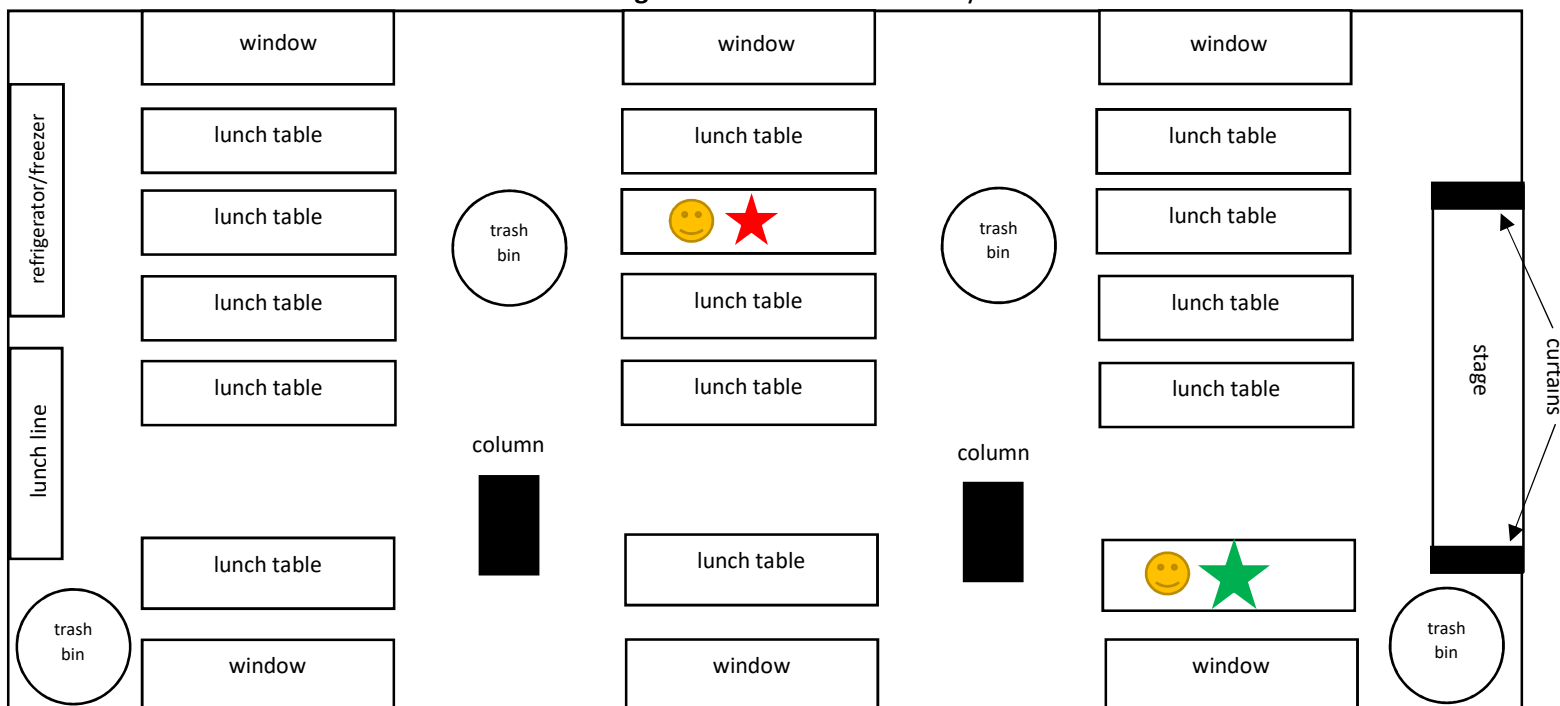
C.

	Pediatric Setting	Geriatric Setting
Visibility of Speaker of Listener (Natural/Artificial Lighting)	- Fluorescent and natural lighting - Clear visibility; speakers sitting across and beside from each other, no shadows on faces	- Natural and artificial lighting - Clear visibility; speakers sitting across and beside from each other, no shadows on faces
Types of Sounds Present (Source, Continuous/Transient)	Continuous: - Fluorescent lighting - Cafeteria refrigerators and freezers - Heat and air conditioning units Transient: - Students - Teachers - Cafeteria staff - Hallway noise	Continuous: - Fans - Humming from light bulbs in hanging lamps - Chairs scooting - Silverware clinking - Foot traffic (from buffet) Transient: - Hostesses - Waiters - Customers - Chef - Phone ringing
Room Construction (Floor, Ceiling, Walls)	- Cinder block walls	- Brick walls - Dry wall - Wooden dividers

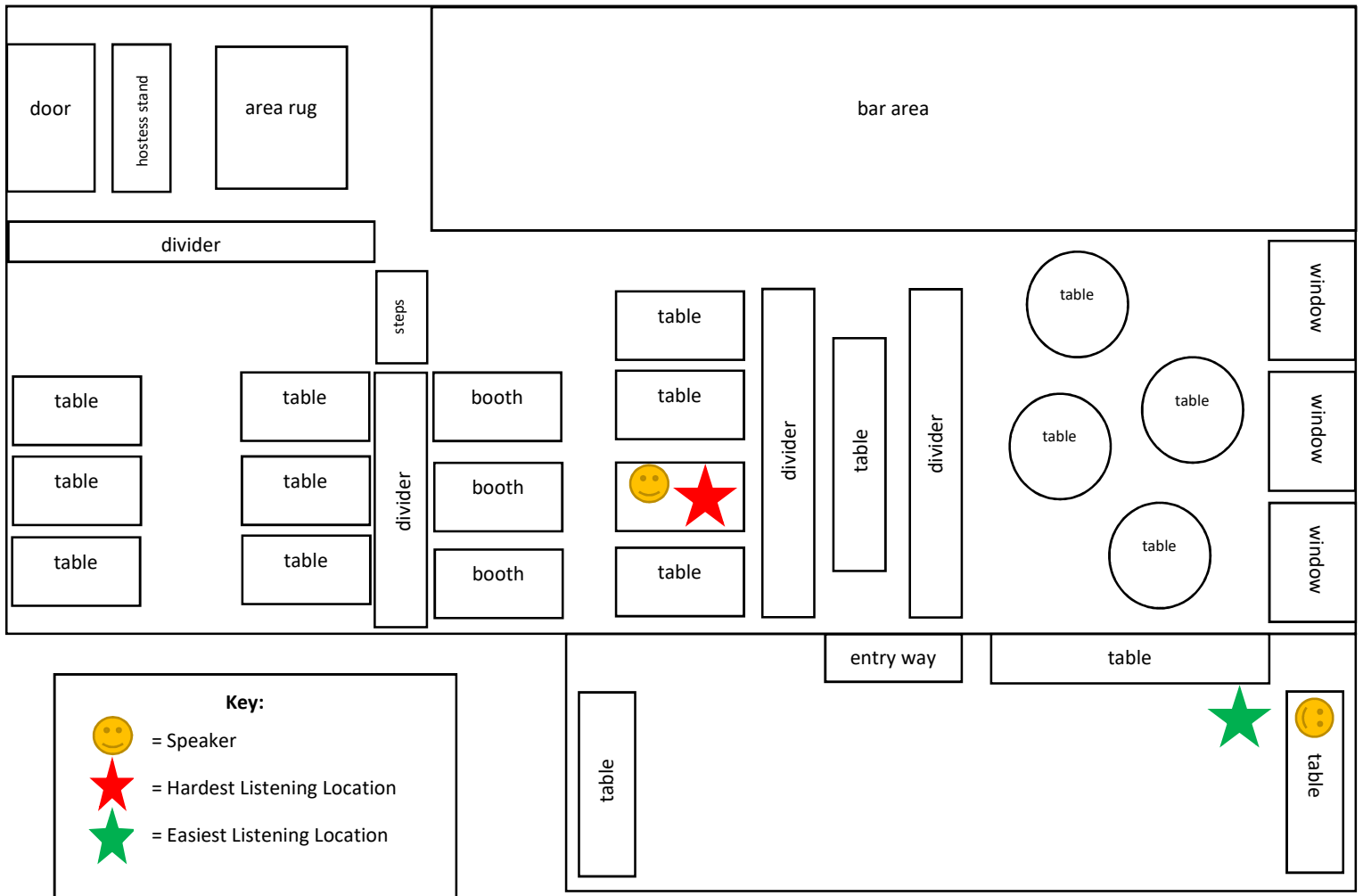
	<ul style="list-style-type: none"> - 3 cinder block columns dividing cafeteria and hallway - Tile flooring - Drop ceiling tiles - Floor to ceiling windows - Stage with curtains open - Doors open to lunch line 	<ul style="list-style-type: none"> - Stained glass - Wooden flooring - Arched wooden ceiling - Area carpet behind hostess stand - Carpeted stairs
Furniture/Window Treatments	<ul style="list-style-type: none"> - Cafeteria lunch tables (15) - Large trash bins (4) - Furniture on stage - Carts (2) - Projector - Large artwork on walls 	<ul style="list-style-type: none"> - Dining tables (20) - Dining Booths (10) - Artwork scattered throughout walls - Fans - Hanging lamps - Fake plants - Stained glass windows
Location of Seating Areas with Respect to Noise Sources	<ul style="list-style-type: none"> - Students sitting across and beside each other - 5 tables located near lunch line - 5 tables located near stage - 3 tables located behind cinder block columns and hallway 	<ul style="list-style-type: none"> - Customers sitting across and beside each other - Tables near hostess stand - Tables near buffet table
Presence of any Acoustical Treatments	<ul style="list-style-type: none"> - Stage curtains - Large artwork 	<ul style="list-style-type: none"> - Dining booths with leather seats - Area rug - Dividers in dining area - Steps with carpet

D. Diagrams

Pediatric Setting: Prince Edward Elementary School Cafeteria



Geriatric Setting: Charley's Waterfront Café Sunday Brunch



E. Pediatric Setting: Prince Edward Elementary School Cafeteria

Location Easiest to Listen

	Measure	Sound Source	Distance
1	70.7 dB	Student	6'
2	75.5 dB	Student	6'
3	72.6 dB	Student	6'
Average = 79.9 dB			

Location Hardest to Listen

	Measure	Sound Source	Distance
1	86.6 dB	Student	2.5'
2	84.8 dB	Student	2.5'
3	83.0 dB	Student	2.5'
Average = 84.8 dB			

The green star indicates the location that would be easiest to hear and understand sounds in the cafeteria. This lunch table is secluded compared to the rest of the lunch tables within the room. This lunch table is located near the stage and curtains which could help with reverberation within the room. It is also located further away from the lunch line and continuous noise of the refrigerator and freezer.

The red star indicates the location that would be hardest to hear and understand sounds in the cafeteria. This lunch table is surrounded by other lunch tables in the middle of the room with many students talking. This lunch table is not located near structures that could absorb sound. In addition, this lunch table is also adjacent to the continuous noise of the refrigerator and freezer.

Geriatric Setting: Charley's Waterfront Café Sunday Brunch

Location Easiest to Listen

	Measure	Sound Source	Distance
1	61.1 dB	Customer	3'
2	60.5 dB	Customer	3'
3	56.6 dB	Customer	3'
Average = 59.4 dB			

Location Hardest to Listen

	Measure	Sound Source	Distance
1	84.4 dB	Customer	2.5'
2	75.1 dB	Customer	2.5'
3	79.0 dB	Customer	2.5'
Average = 79.5 dB			

The green star indicates the location that would be easiest to hear and understand sounds at Charley's Sunday Brunch. The room was secluded and away from majority of the customers and staff. There was also less foot traffic within this room due to its secluded location.

The red star indicates the location that would be hardest to hear and understand sounds at Charley's Sunday Brunch. This location was in the middle of the restaurant surrounded by conversations from tables within the room, foot traffic, and sounds of silverware clinking as people enjoyed their brunch. There was only one divider that helped to separate the noise within the room at this particular table.