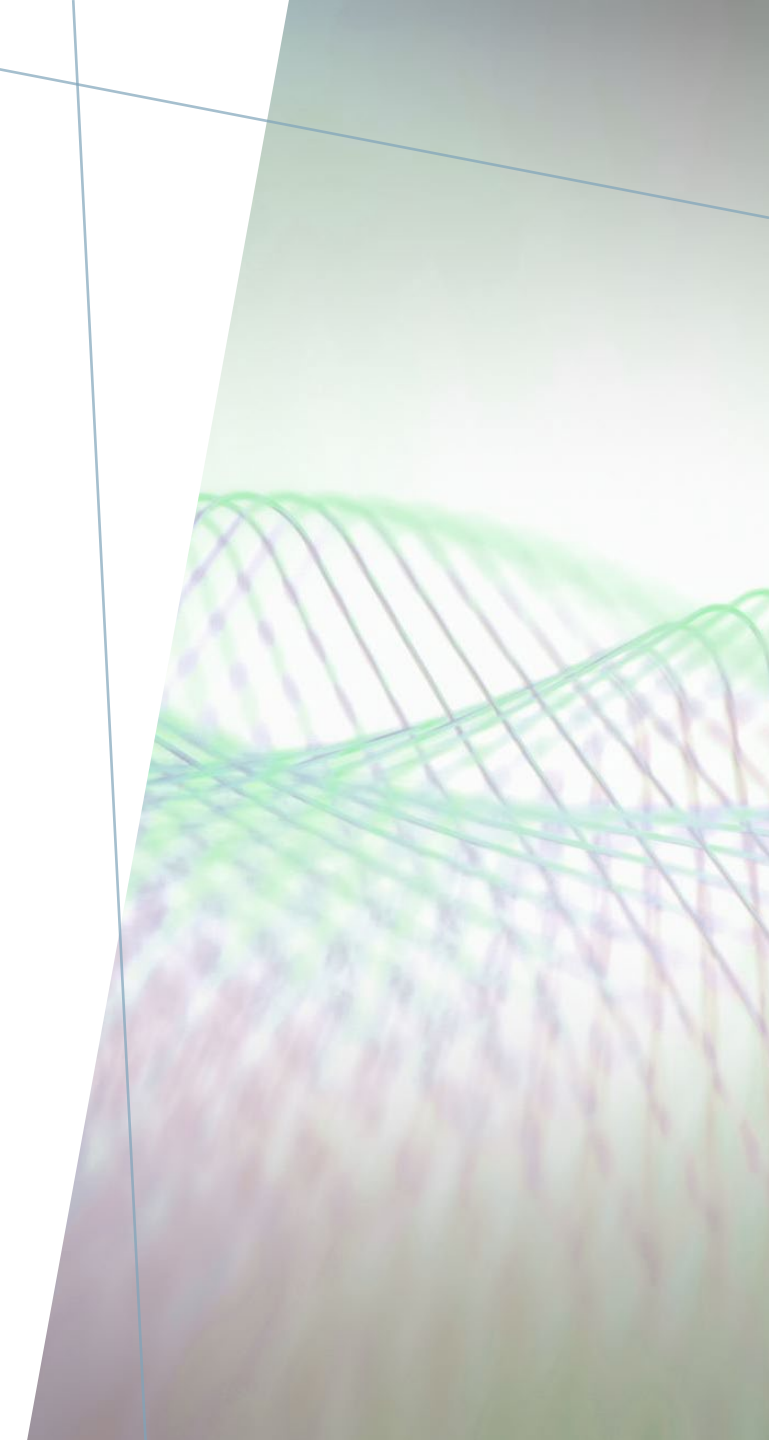


ASHLEY CUMMINGS

THERAPLAY
DESIGN
DEVELOPMENT
PHASE



PREVIOUS PROJECT TAKEAWAYS

- Client Wants
 - Natural wood
 - More sophisticated areas for office spaces
 - Open spaces to use for events
 - High ceilings
- Surveys
 - Nice class sizes
 - Not enough space for activities being performed.
 - Spaces are too small
 - Low ceilings don't help with acoustics
 - Lighting too harsh in horse area.
 - Need more natural lighting

CASE STUDY

Wayfinding

- Locating an intended destination within an environment
- Successful wayfinding design
 - Determine their location
 - Determine their destination
 - Develop a plan to get from their location to their destination.
- This study looked at wayfinding in TC and Noyer

Table1. Comparison of Wayfinding Locations by Averages

	TC 604	Noyer 206
Time	1:48	2:13
Confusion Points	0.86	0.57
Looking for Sign	1.40	1.26
Stress Level	2.0	2.89
Difficulty	2.74	3.57

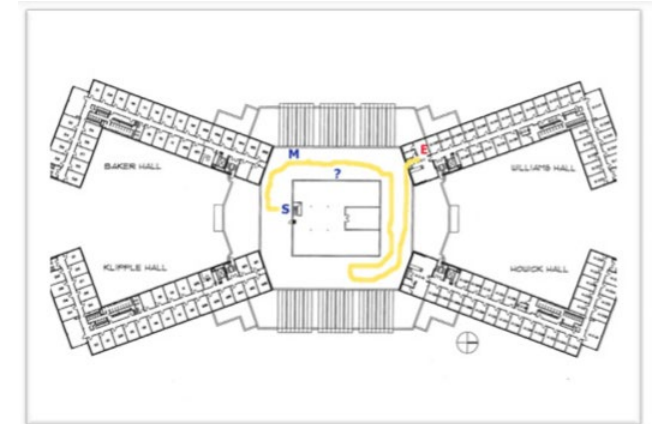
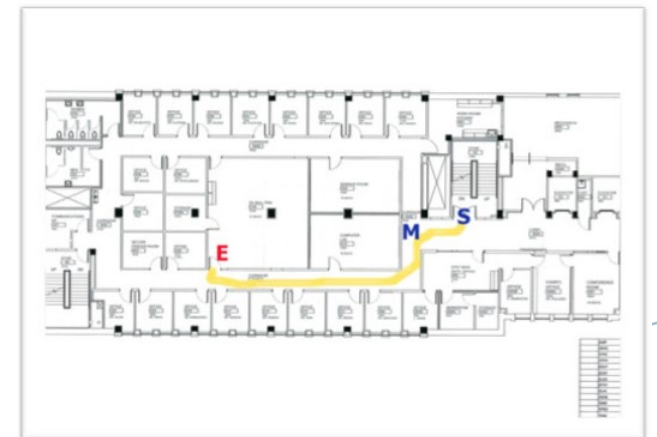


Figure 1. Noyer Hall floor plan with wayfinding path recorded



EVIDENCE BASED RESEARCH

- Furniture

- Seating options need to be nonconfrontational and conducive to dialogue and supporting service in the space.
- Chairs must have back support.
- Must be heavy enough to not be able to throw in the case a patient has anger problems
- Must be adjustable or easily moved around.
- Age-appropriate
- Soft furnishings provide soothing



EVIDENCE BASED RESEARCH

- Colors (Different areas)
 - Choosing light and soothing colors, Shades of blue and green

Red Excitement Strength Love Energy	Orange Confidence Success Bravery Sociability	Yellow Creativity Happiness Warmth Cheer	Green Nature Healing Freshness Quality	Blue Trust Peace Loyalty Competence
Pink Compassion Sincerity Sophistication Sweet	Purple Royalty Luxury Spirituality Ambition	Brown Dependable Rugged Trustworthy Simple	Black Formality Dramatic Sophistication Security	White Clean Simplicity Innocence Honest

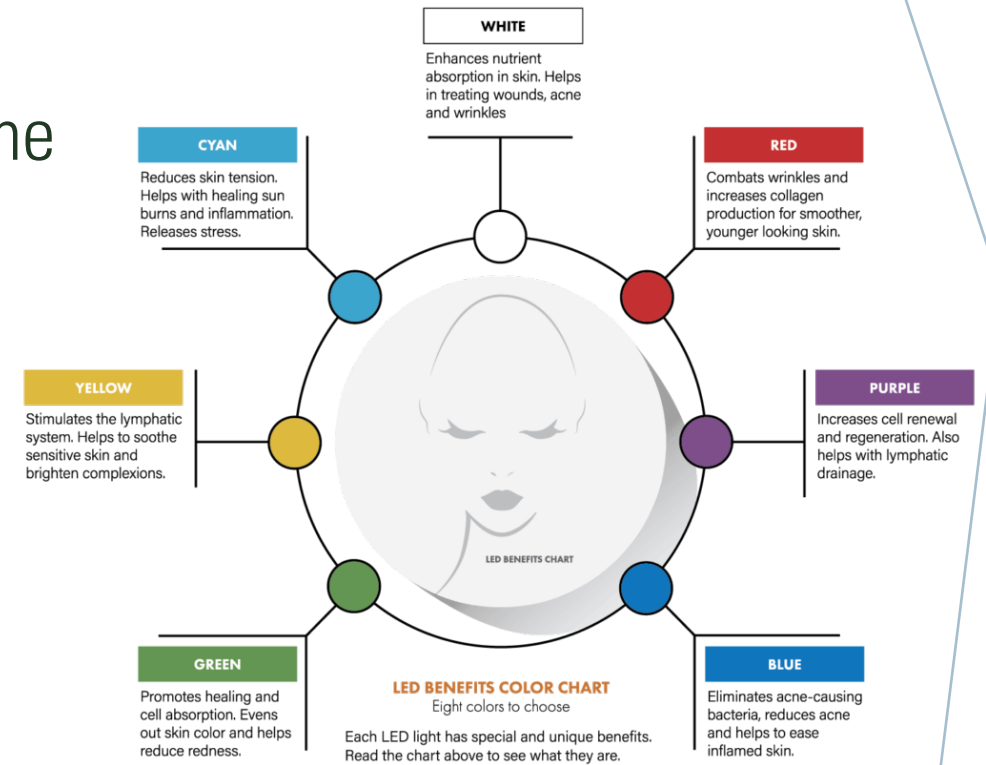
Healthcare Color Meanings	
	stress reliever, safety, professional
	wellbeing, balance, stimulating
	healing, fertility, growth
	calmness, soothing, hope
	high energy, blood, emergency

think design

EVIDENCE BASED RESEARCH

- Lighting

- Keep windows open to sunlight making the room bright, open, and warm.
- Adjustable lighting; empowers clients to make the space their own.
 - Lamps or lights that dim



EVIDENCE BASED RESEARCH

- Wayfinding (autism and wayfinding)
 - Helps their understanding and experience in the space.
 - Helpful in complex buildings such as healthcare.
 - Maps, directions and symbols
 - Can contribute to a sense of well-being, safety, and security.
 - Incorporating the Picture Exchange Communication System



EVIDENCE BASED RESEARCH

- Acoustics
 - Helps facilitate speech communications
 - Supports a more focused work environment to reduce medical error
 - Lessens stress for staff and patients
 - Promotes healing
 - Enhances patient privacy
 - Wherever possible, absorbent materials should be located as close as possible to noise sources.
 - Absorptive materials should be integrated into large open areas to curtail any excessive reverberation that might develop.
 - High dB level of noise lead to serious problems in the human behavior.

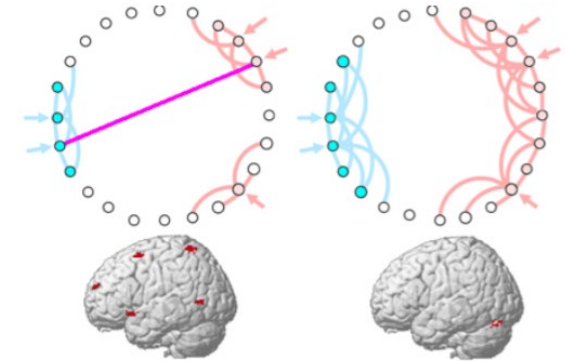


Figure 1.4 Effects of Network Connectivity Patterns on Brain Activation. Normal brain (left) and Autistic Brain (right), source (Matthew K. Belmonte, Greg Allen, Andrea Beckel-Mitchener, Lisa M. Boulanger, Ruth A. Carper, and Sara J. Webb. 2004)

Exposure	Tolerance data Observed behavior
0 to 50 Hz Up to 145 dB	Chest wall vibration, gag sensations, respiratory rhythm changes, post-Exposure fatigue; voluntary tolerance Not exceeded
50 to 100Hz Up to 154 dB	Headache, choking, coughing, visual blurring and fatigue; voluntary Tolerance limit reached
Discrete	Tolerance limit symptoms
100Hz at 153 dB	Mild nausea, giddiness, sub-costal Discomfort, cutaneous flushing
60 Hz AT 154 dB 73 Hz at 150 dB	Coughing, severe sub sternal pressure choking respiration, salivation, pain On swallowing, giddiness

EVIDENCE BASED RESEARCH

- Materials
 - Natural-colored wood grain without taking up 45% of the space.
 - Materials that don't leave fingerprints.
 - Tactile environments and play areas.
 - Materials that are sensory friendly.



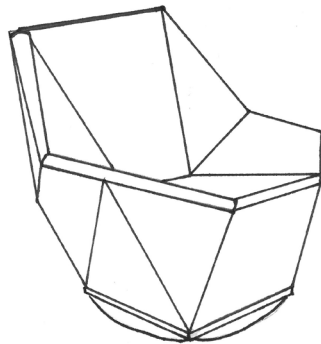
SITE VISIT TAKEAWAYS

- The child I observed didn't have a lot of movement while on the horse. He was able to hold himself up and stay on the horse without the help of the therapists.
- While in the therapy room, he played with a lot of the toys and furniture that you have to sit down in. There was a swing that he sat on that the therapist moved around. He sat on the trampoline while the therapist bounced him. This led me to want to create a sitting option that also provided movement.

FURNITURE PIECE TO CREATE

Wobbling chair

- A chair that moves to allow patients rotate of wiggle while in therapy.
- These would be located in the areas of therapy.
- This chair would be made from durable plastic and the seat would be made from plush material with upholstery.



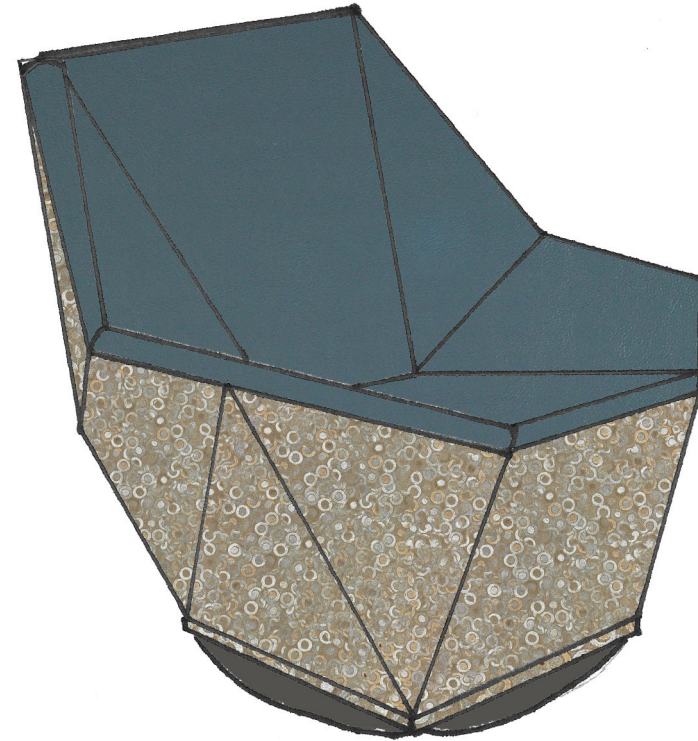
Yoga Ball Organization

- A net they are able to put the ball in.
- Storage with elastic bars so be able to pull yoga balls out easily.

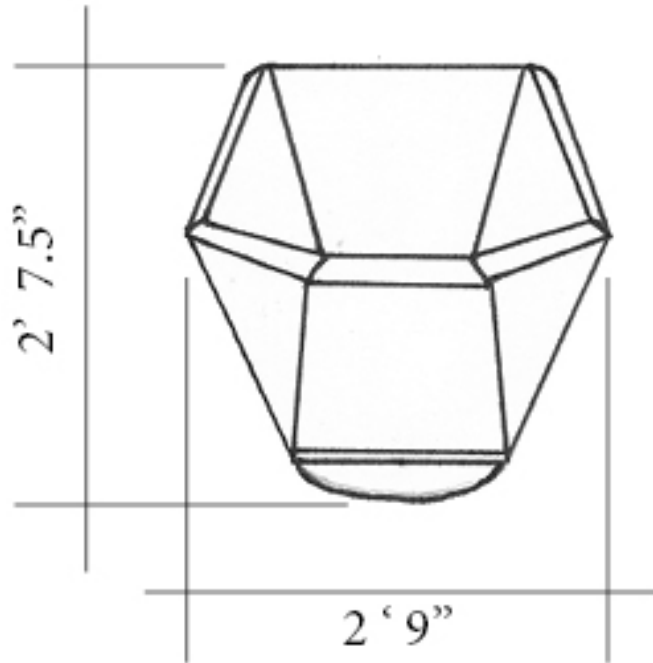


FURNITURE PIECE- WOBBLING CHAIR

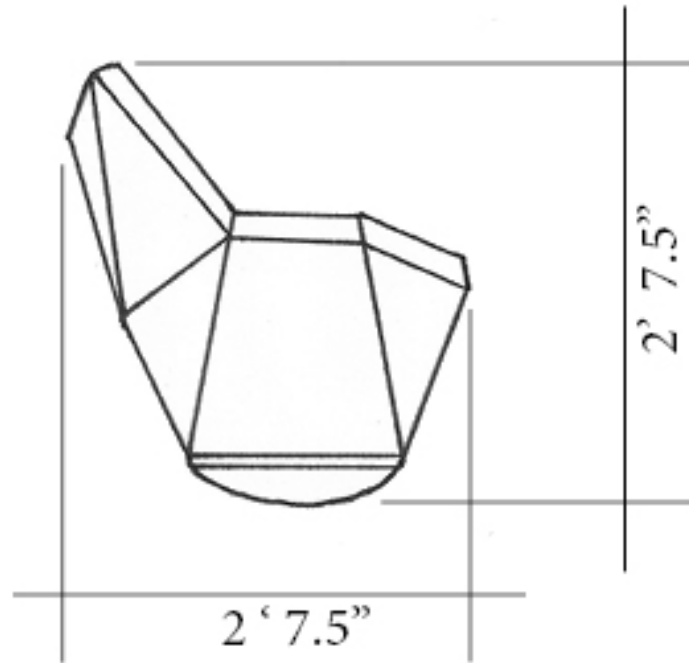
- Why it is effective?
 - This furniture piece gives the user the ability to be in a seated position while offering the ability of movement.



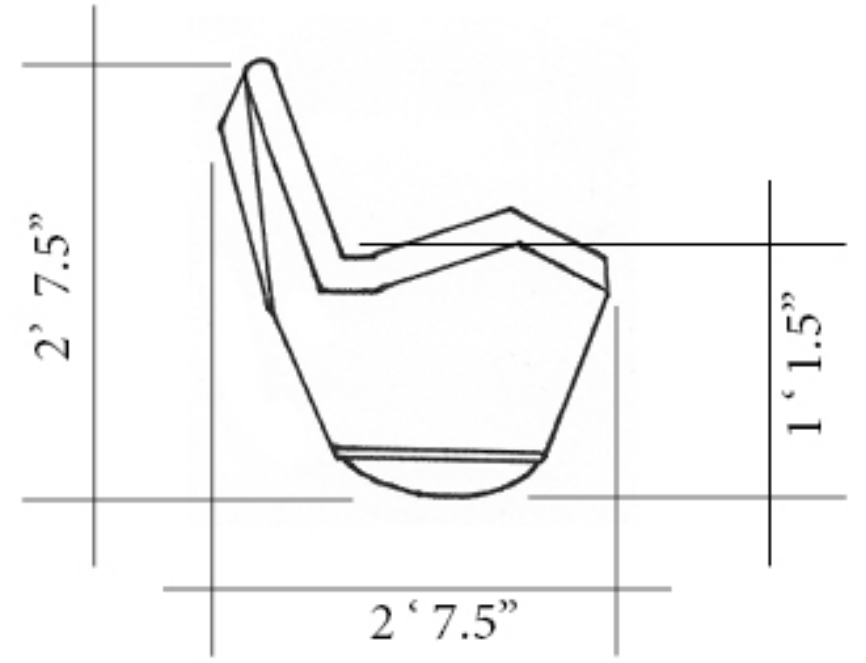
PRELIMINARY SECTION AND ELEVATIONS



Front Elevation

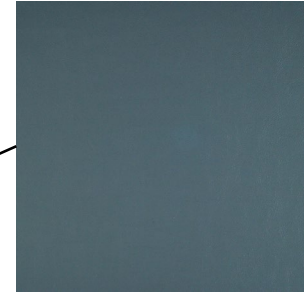
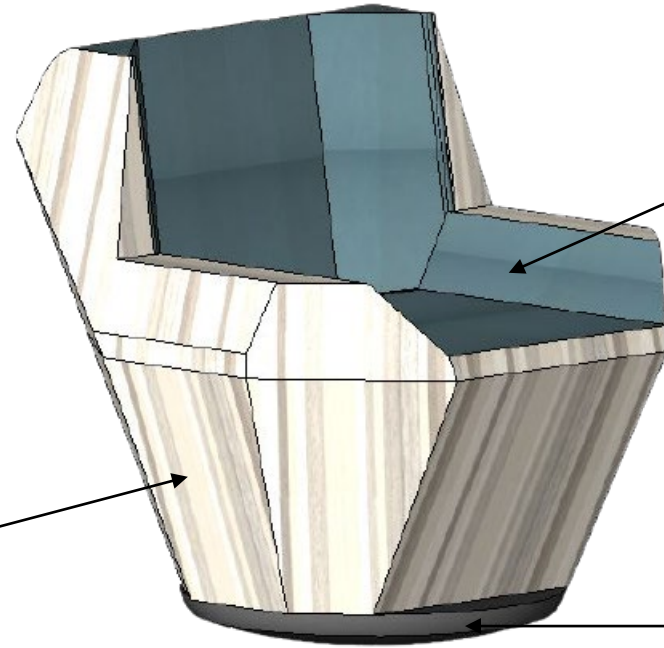


Right Elevation

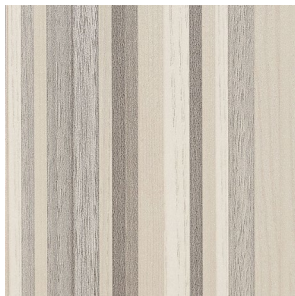


Section View

PERSPECTIVE AND MATERIALS



Maharam Vinyl
Article, Bluegrass



Formica Aspen Ribbon
Wood Laminate



Balance Ball

