EXTERIOR

“PROMOTING AUTISM AWARENESS AND COMMUNITY OUTREACH”

- Retractable Awning
- Removable Logo
- Removable Text

A. J. DREXEL AUTISM INSTITUTE
Mobile Assessment Unit Design Competition | Group 2: Grace Lam, Alexis Siriani, Yoshie Takeo
RESEARCH FINDINGS

SPACES / ZONES

STORAGE
- Organized environment: clear visual cues and physical boundaries to create a definite context for each activity
- Minimize sensory distractions: visual, tactile, auditory, olfactory
- Use minimal details, textures, colors and materials
- Provide social interaction choices: close tactile contact, rough and tumble player, retreat area
- Provide a sensory area to destress and engage in visual, auditory, tactile or olfactory stimuli
- Inverter/generator
- Storage: closeable, lockable
- Accommodates: laptop/notes, toys with plastic tub, portable eye tracker, flex storage, centrifuge, refrigerator

SENSORY AREA
- Spatial Sequence compartmentalization: Subdivide the space into smaller areas to decrease overstimulation controlled sensory stimulation in subspaces: ranging from highly stimulating areas to minimally stimulating areas

ADDITIONAL
- Neutral tones and textures
- Use minimal details, textures, colors and materials
- Creates visual calm
- 2 interchangeable pictures for test administration that are near the table
- Provide visual instructions: Indicate sequence of steps with pictures

ASSESSMENT AREA
- Accommodate assessor, 1-2 parents and 1 child
- Examiner needs to sit across the table from child, parent off to side
- Video monitor near table for eyetracking tests
- Power in multiple locations
- Video camera from front cab and in ceiling for 360 degree views
- Two-way mirror on wall separating the cab and the rear
- Lab: small biosample fridge, counter for centrifuge and storage

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**LIGHTING**
- Skylight
- Dimmable Lights
- Tinted glass and skylights
- Non-fluorescent indirect diffuse light on dimmers

**SOUND**
- Minimal outside noise
- Acoustics: Use sound absorbing materials to minimize auditory distractions

**SAFETY**
- Child friendly decor theme for children from birth to 12 years
- Moveable/stackable height adjustable seating
- Moveable/stowable height/width adjustable table
- Trap kids in a corner with testing table
- Windows on one side of van
- High window placement
- Windows made of safety glass
- Ventilation
- One exit/lock/latch set high
- Carpet and padding on the floor
- An environment that allows for independent exploration with distant supervision
- Locks on cabinetry

**EXTERIOR**
- Removable exterior designs/logos
- Approachable graphics
- Branding in multiple languages
- Safe, navigable language, and inviting entry
INTERIOR - FLOOR PLANS

SCALE: 3/8" = 1' - 0"

ENTRANCE

TWO-WAY MIRROR WITH SOLID WALL PARTITION

15" - 0½"

SEATING WITH STORAGE BELOW

REFRIGERATOR

ADDITIONAL STORAGE

ELECTRICAL OUTLET

SEATING WITH STORAGE BELOW

ASSESSMENT

AMUSEMENT

CHILDREN SEATING (ADJUSTABLE SEATING)

FLIP UP TABLE (HEIGHT ADJUSTABLE)

ASSSESSOR (ADJUSTABLE SEATING)

STORAGE CABINET

SLIDING PARTITIONS ON TRACKS

TO BE DETERMINED

LEGGED WITH STORAGE BELOW

VIDEO CAMERA

ADDA ACCESSIBLE 19.5" TURNING RADIUS (WHEEL CHAIR)

WHITE BOARD WALL

MAGNETIC PAPER HOLDER

EYE TRACKING DEVICE

BUBBLES TUBES

ADA ACCESSIBLE 19.5" TURNING RADIUS

SLIDING PANELS ON TRACKS

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INTERIOR - REFLECTED CEILING PLAN

SCALE: 3/8" = 1' - 0"

LEGEND

- LED DOWNLIGHT INSIDE CABINET
- DIMMABLE LED DOWNLIGHT

LIGHTING - LED STRIP LIGHT

SS29 SOFT STRIP LED Strip light
Source: Edge Lighting
Dimensions: 1" wide, sold by the foot, up to 40 ft with easy plug-in connector on each end.
INTERIOR - PERSPECTIVES

CIRCULAR WINDOWS DOUBLE GLAZED WITH ADJUSTABLE BLINDS IN BETWEEN
FLIP DOWN SHELF FOR TOY REWARDS
SKYLIGHT WITH FROSTED GLASS
RECESSED LED STRIP LIGHTING
MAGNETIC WHITE BOARD

ASSessment AREA - TABLE FLIPPED DOWN AND OPEN SPACE FOR FLOOR PLAY

SEATING WITH STORAGE BELOW

WORK SURFACE WITH STORAGE SPACE FOR FRIDGE, CENTRIFUGE, TRASH AND SINK
BUBBLE TUBES
FULL HEIGHT CABINETS

PHOTO SLOT FOR THE CHILDREN ASSESSED
PECS

TABLE FLIPPED DOWN

ASSessment AREA - TABLE FLIPPED UP

TABLE FLIPPED UP
INTERIOR - NORTH ELEVATIONS

SCALE: 3/8” = 1' - 0"

CHAIR 1 - SOLID SWOOP SEAT BY PBTEEN

Overall Dimensions: 18” W x 21” D x 34” H
Back rest: 17” H
Seat: 17” W x 20” Deep
Distance from floor to top of seat: 18” high

COUNTER WITH HIDDEN SINK AND FAUCET EXAMPLE

I want

PECS
INTERIOR - SOUTH ELEVATIONS

SCALE: 3/8" = 1' - 0"

Sensory wall behind sliding panel

SENSORY TOY 1 - GREEN ABSTRACTIVITY
Source: www.specialneedstoys.com
Dimensions: 37.75" W x 12" H x 3" D

SENSORY TOY 2 - SILVER ABSTRACTIVITY
Source: www.specialneedstoys.com
Dimensions: 37.75" W x 12" H x 3" D

CHAIR 2 - GIGI SWIVEL CHAIR
Knoll by Marco Maran
Overall Dimensions: 19" W x 25" D x 38.25" H
INTERIOR - EAST AND WEST ELEVATIONS

SCALE: 3/8" = 1' - 0"

BUBBLE TUBES - 1.2 M INTERACTIVE HURRICANE TUBE (WATERLESS BUBBLE TUBE)
Source: www.specialneedstoys.com
Dimensions: 4' H x 6' Diameter

Sensory wall behind sliding panel

SLIDING PANEL

Flip down shelf for toy rewards

Sensory toy 3 - LIGHT BOX AND RAINBOW SPLATS
Source: www.specialneedstoys.com
Dimensions: approximately 4.75"

Additional storage for foldable chairs (tip-up cabinet)

Two-way mirror

Chair 3 - TRIOLI CHILDREN'S CHAIR: MAGIS, BY EERO AARNIO
Dimensions: three different seat heights and can be used as a rocker:
20"W x 18"D x 23"H, seat height 15"
20"W x 18"D x 23"H, seat height 11"
20"W x 23"D x 18"H

Electrical outlet

Sliding panel: slides to left, concealed behind the bubble tubes wall

Seating with storage beneath