

Agenda

A different approach

Real results

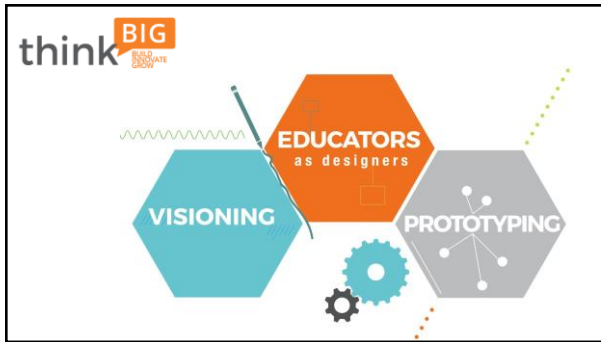
How to "HACK"

DIFFERENT APPROACH

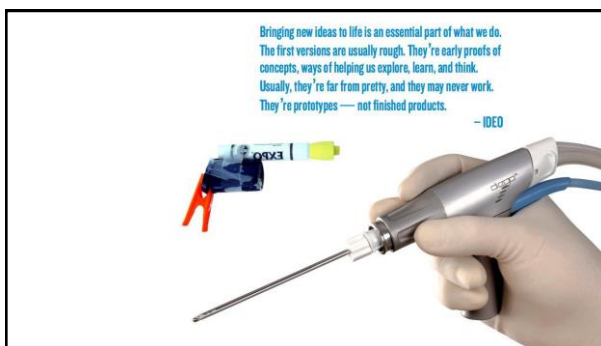
think **BIG**

traditional planning **fails**

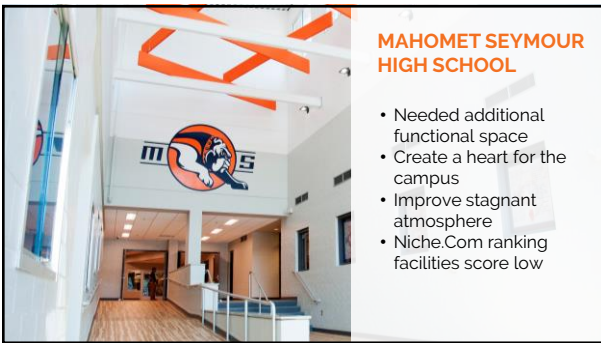
- **Visits to new schools**
 - Shopping for cars
 - Bigger better versions of old models
- **Interviews**
 - Limited value of input
 - Lost in translation
- **Charrettes**
 - Limited time to develop expectations
 - Chasm between what users **THINK** they want, and **LEARNING** what they want through experience
- **Admin led**
 - Top down → no "buy in"
 - Lost opportunities

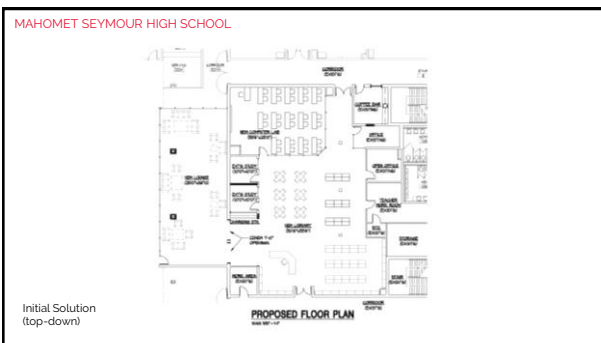






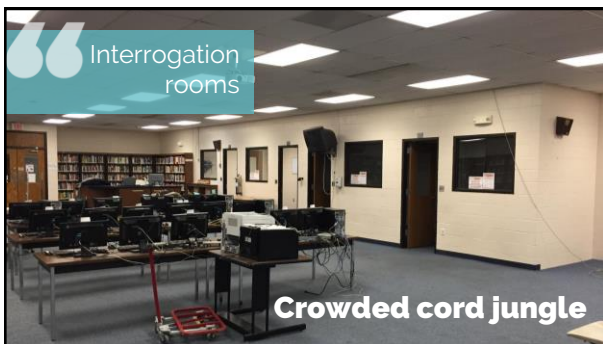


















2

DEFINE

- Collect common themes
- Prioritize needs
- State the problem

Varied sized spaces for varied activities

A flow of acoustics/privacy

Destination space with MSHS identity

Technology driven

A resource space

3

IDEATE

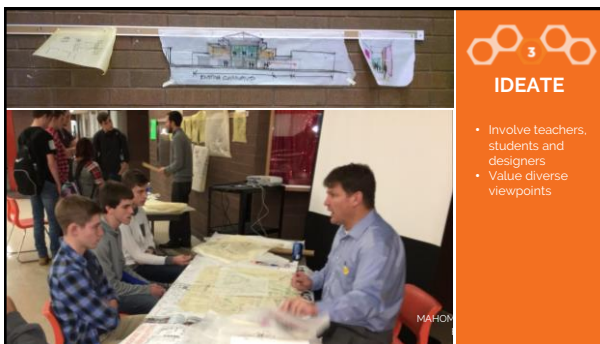
Explore every idea, generating a wide range of potential solutions



3

IDEATE

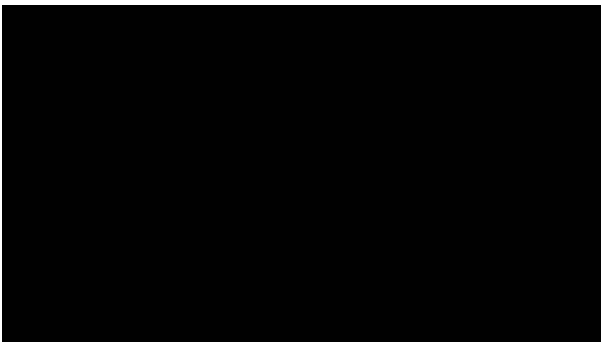
- Involve teachers, students and designers
- Value diverse viewpoints



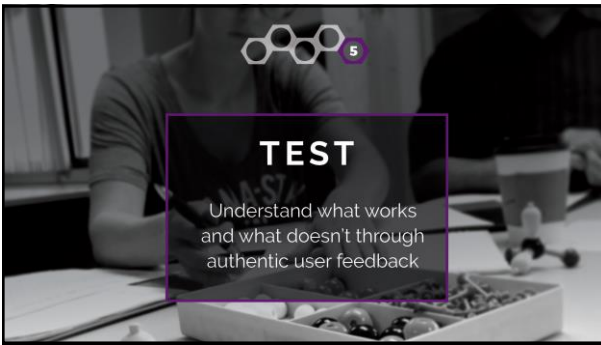


























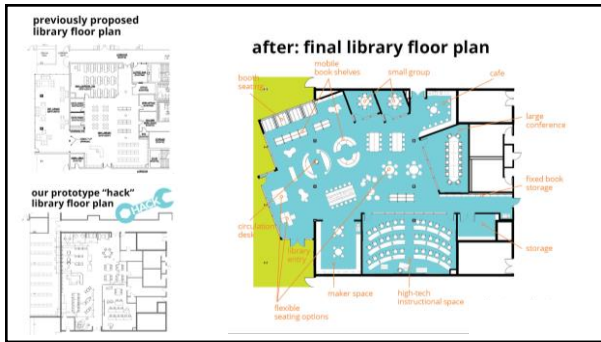


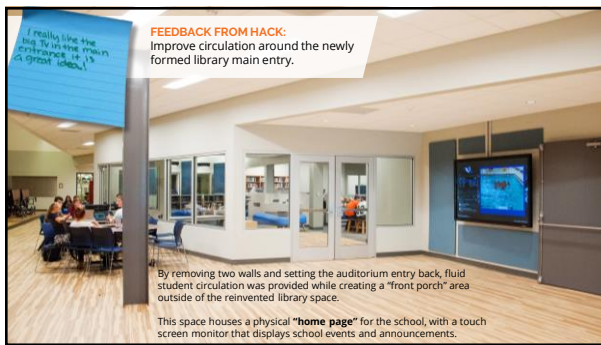
What we learned from the **"HACK"**

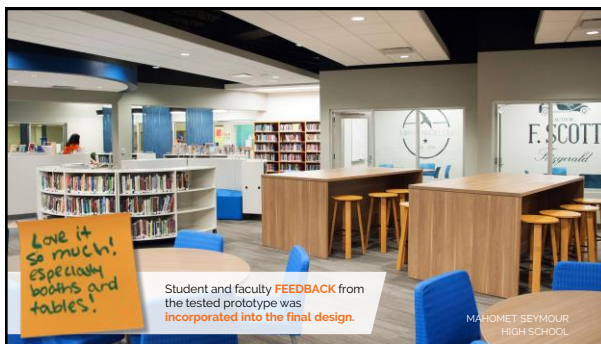
- Students are surprisingly practical!
- Students are as thoughtful as adults
- The process transformed both students' and teachers' existing perceptions of the purpose of the space
- Experiencing the prototype allowed for a rapid adoption of a more creative solution.
- Choice and flexibility were key components/assets to a successful design

real RESULTS

think **BIG**

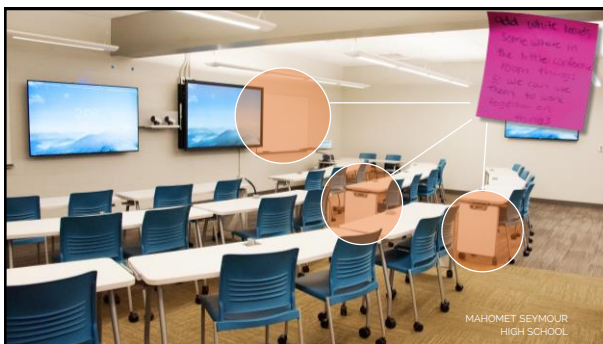














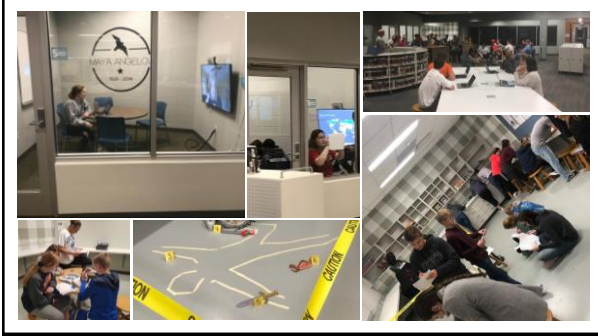












project observations

- Dramatically increased utilization of the space.
- Created a social hub/destination. A new "heart" for the campus.
- Non-traditional furnishings may be the most appealing to students.
- By insuring that power is dispersed throughout the space, allowed students to utilize the entire space.
- Use of space by curricular instructors has increased.
- Students WANT to be in the space.

how to "HACK"

think **BIG**

How to "HACK"



Partial
rough walls



Stage with
furniture



Stage with
technology



Create feedback
opportunities

prototyping PLAN

DETERMINE LENGTH OF TIME FOR PROTOTYPING

2-3 days
2-4 weeks
months
semester
school year

EXPLORE ALTERNATIVE PROTOTYPING STRATEGIES

Virtual Reality Models
"Hacking" existing space for use as a prototype
Offsite warehouse as prototype location

ESTABLISH STUDENT EDUCATION COMPONENTS

Education
Engagement
Ownership

DETERMINE SYNERGY WITH CURRICULUM

Identify programs that will use prototype spaces and
customize as desired
Assist administration with communication to staff

DETERMINE PROTOTYPING CONSTRUCTION

CONVENTION
Determine level of "finish"

• "Crude or rough" to "finished construction"
Determine major structural elements and prototyping
components
Determine staging required

DETERMINE WORKFORCE NEEDED

Contractors if any/
Architect as installer
District staff

OBTAIN VENDOR COMMITMENT

Furniture/vendors
Technology Providers
Finish Vendors and materials

ESTABLISH PROTOTYPE BUDGET, SCHEDULE, AND REGULATORY REQUIREMENTS

Prototype materials: architect furnished vs. purchased
Furniture: staging provided vs. purchased
Technology: vendor provided vs. purchased
Determine code requirements and submitals

Create logistics plan pre-prototype work, contractor
modification of existing construction, prototype
installation, testing duration, tear down and new
prototype installation

ESTABLISH EVIDENCE BASED DESIGN PROTOCOL

Define evidence based design goals and objectives

Find sources of relevant evidence

Critically interpret relevant evidence from:

• stakeholder interviews
• learning activity observations
• exemplar tours

Create and revise evidence based design concepts

Develop a hypothesis

Collect baseline performance measures

Monitor implementation

Measure post occupancy performance results

think **BIG**

prototyping KIT OF PARTS



WALLS - FRAMING

80/20 extruded aluminum framing
1x4 wood framing
Wood storage shelf framing

WALLS - SURFACE

Black mesh tarp
Plastic sheeting
Neoprene panel boards
Fabric

LIGHTING

Clip-on shop lights
Mini spotlights
Sunrise lighting from vendor partners

FURNITURE

Vendor partner provided
Architect provided
• Stacking stools
• Portable tables
Pilot program purchases
Boxes and temporary improvised
pieces

FLOORING

Carpet tile
Broadloom carpet with professional
installation
Paints or coatings

EQUIPMENT

Mobile Masterboards
Neoprene panel boards
Portable work tables
Portable storage units
Laminated countertop with support
brackets

TECHNOLOGY

Vendor partner provided
Owner provided

LABOR

Architect
Students
Local volunteers
District staff
Contractors

FEEDBACK

Masterboards
postits
Butcher paper
Post it notes
GfK code / Google Survey
Moodle
Survey monkey

INFRASTRUCTURE

Power
• Extension cords
• Contractor
• District staff
Data
• Contractor
• District staff

OTHER

Bungee cords
Duct tape
Zip ties
Power tools
Hand tools
Paint / Marker Board paint

think **BIG**