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Questions related to specific materials, methods, and services will be addressed at the conclusion of each presentation.

# Learning Objectives

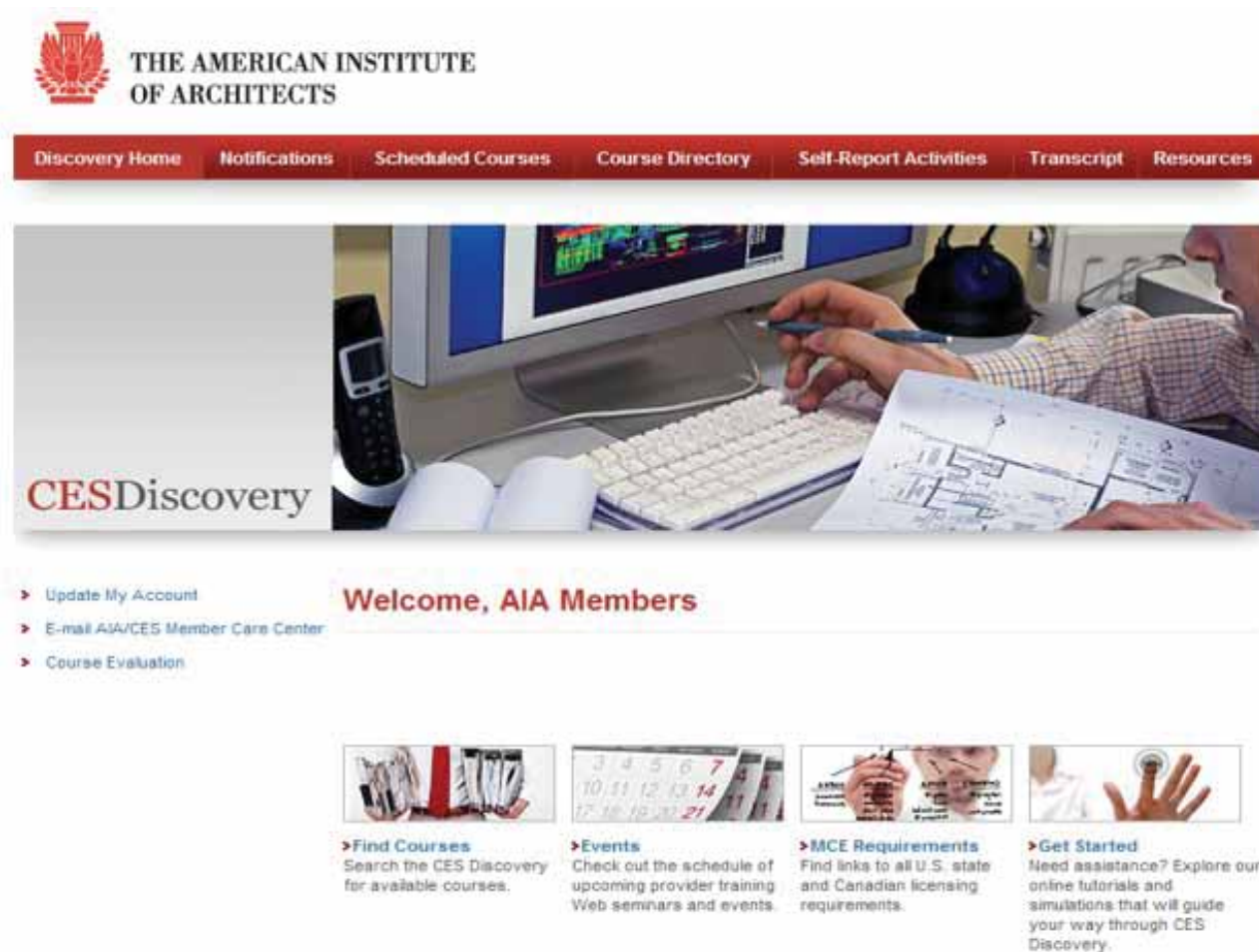
## LIBRARY DESIGN FOR THE 21<sup>ST</sup> CENTURY LEARNER

At the end of this program, participants will be able to:

- 1. Have familiarity with current trends in library design*
- 2. Know strategies for observing and documenting student behaviors in libraries*
- 3. Understand Impact of technology on student use of library spaces*
- 4. Understand changing expectations in the educational system for student learning*

# Course Evaluations

In order to maintain high-quality learning experiences, please access the evaluation for this course by logging into CES Discovery and clicking on the [Course Evaluation](#) link on the left side of the page.



The screenshot shows the AIA CES Discovery website. At the top is the AIA logo and the text "THE AMERICAN INSTITUTE OF ARCHITECTS". Below this is a red navigation bar with links: "Discovery Home", "Notifications", "Scheduled Courses", "Course Directory", "Self-Report Activities", "Transcript", and "Resources". The main banner features the "CESDiscovery" logo and a photo of a person at a computer. Below the banner, a "Welcome, AIA Members" message is displayed. On the left, a vertical list of links includes "Update My Account", "E-mail AIA/CES Member Care Center", and "Course Evaluation", with a large yellow arrow pointing to the latter. At the bottom, there are four tiles: "Find Courses" (with a book icon), "Events" (with a calendar icon), "MCE Requirements" (with a checklist icon), and "Get Started" (with a hand icon).

**THE AMERICAN INSTITUTE OF ARCHITECTS**

Discovery Home Notifications Scheduled Courses Course Directory Self-Report Activities Transcript Resources

**CESDiscovery**

Welcome, AIA Members

- Update My Account
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- Course Evaluation

**Find Courses**  
Search the CES Discovery for available courses.

**Events**  
Check out the schedule of upcoming provider training Web seminars and events.

**MCE Requirements**  
Find links to all U.S. state and Canadian licensing requirements.

**Get Started**  
Need assistance? Explore our online tutorials and simulations that will guide your way through CES Discovery.

Thank you for your time!

QUESTIONS??

This concludes The American Institute of Architects  
Continuing Education Systems Course

CEFPI

# Library Design for the 21st century learner

Sean Connor, Pfluger and Associates

Carolyn Foote, Westlake High School Library

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*April 5, 2013*



# About us

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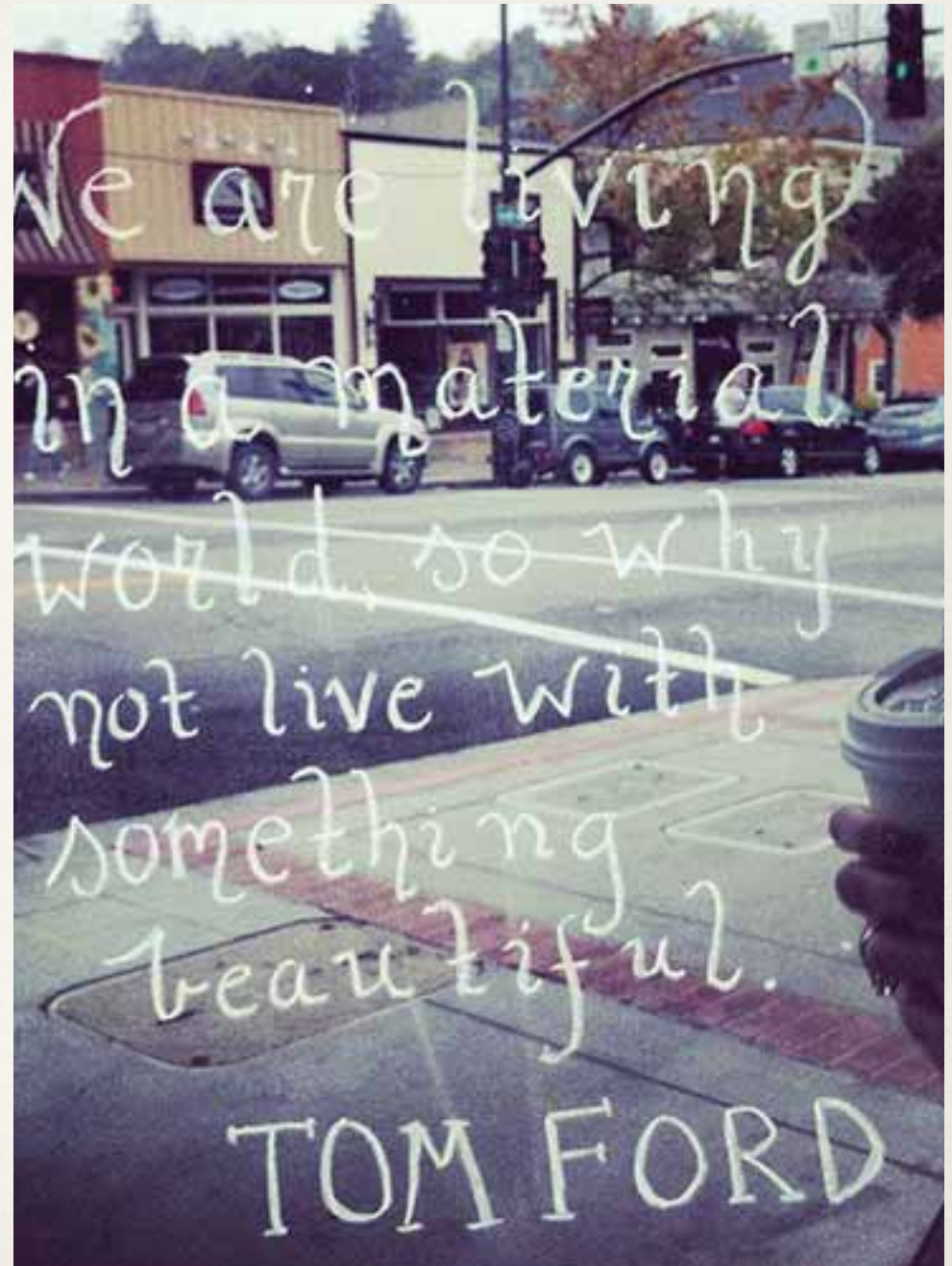
**Sean Connor**

Pfluger Associates Architects

**Carolyn Foote**

Westlake High School

Eanes ISD



cutmodern design

# Conference Materials

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<http://todaysmeet.com/cefpi>

slideshare of presentation

[www.pflugerarchitects.com](http://www.pflugerarchitects.com)







# What do we know about learners?

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# Who is our “customer”?

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# Teens and tech

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✦ **71%** of teens say the computer they use most often is shared with other family.

✦ **23%** of teens surveyed have a tablet.

✦ **37%** of teens have smartphones. (78% have a phone)

<http://www.pewinternet.org/Reports/2013/Teens-and-Tech/Main-Findings/Teens-and-Technology.aspx>



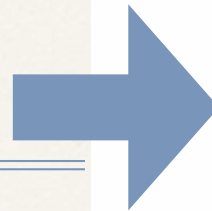


# Digital natives?

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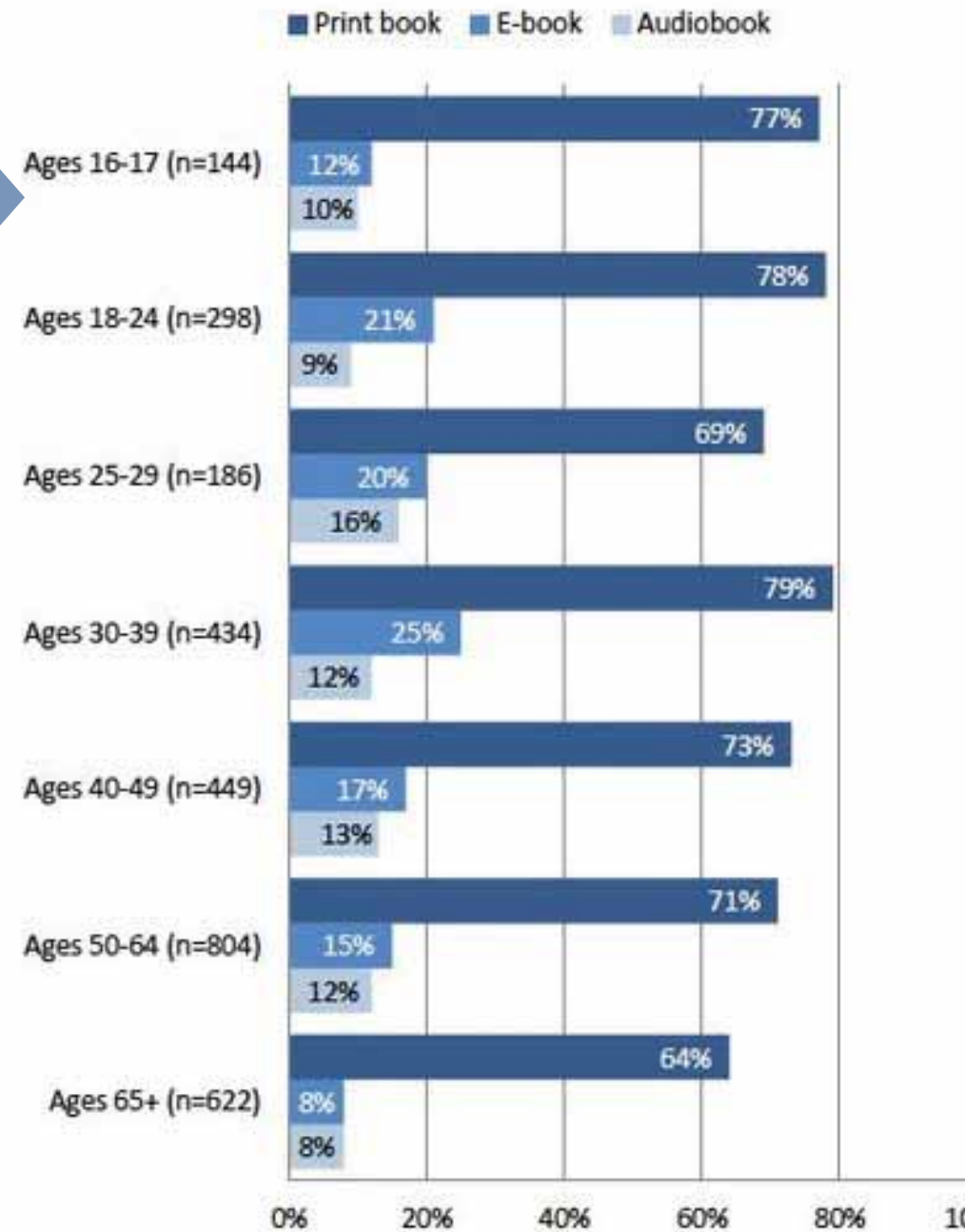


# Teens and libraries



## Book formats read in the past year, by age group

% of all Americans in each age group who read a book in each format in the past 12 months. For instance, 77% of Americans ages 16-17 read a print book in the past 12 months.

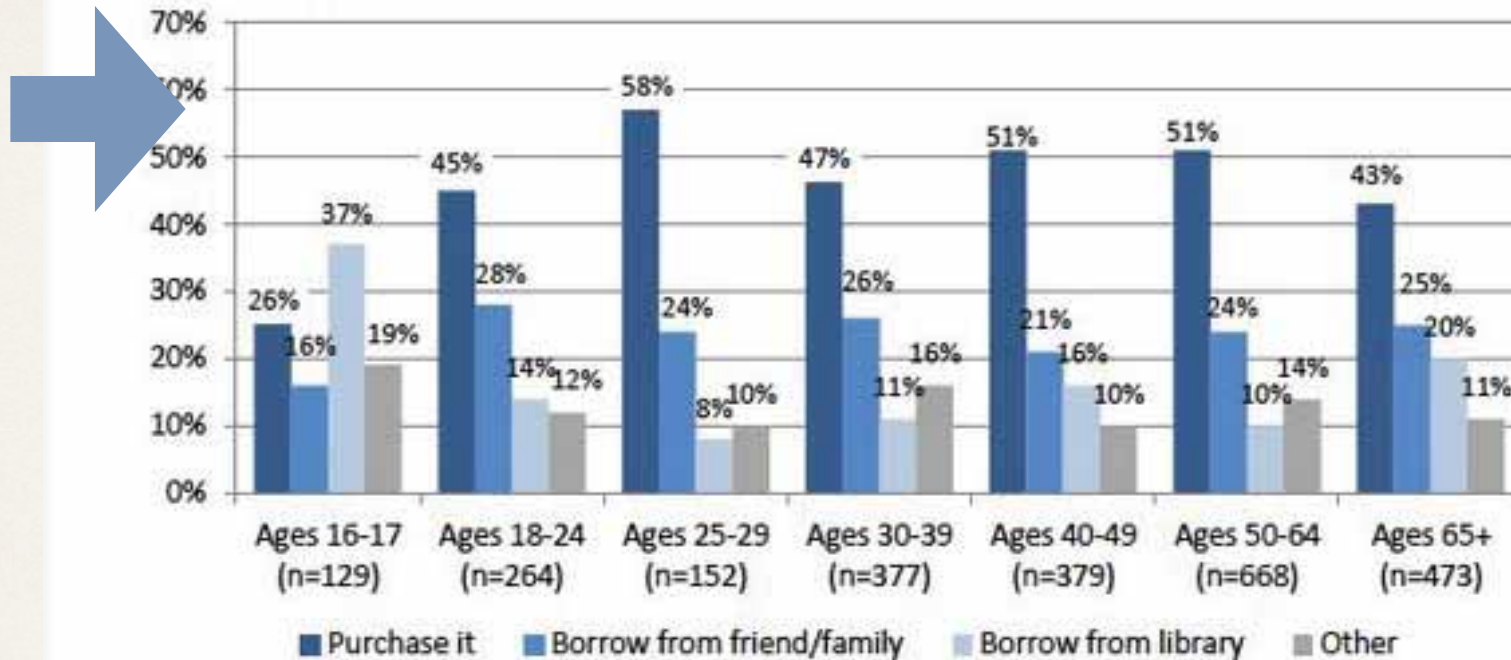


Source: Pew Research Center's Internet & American Life Reading Habits Survey, November 16-December 21, 2011. N=2,986 respondents ages 16 and older. Interviews were conducted in English and Spanish and on landline and cells.

<http://libraries.pewinternet.org/>

## Thinking about the last book you read, in any format, did you...

Among Americans ages 16+ who read a book in the past 12 months, the percentage who got their most recent book from each source



Source: Pew Research Center's Internet & American Life Reading Habits Survey of 2,986 people ages 16 and older conducted November 16-December 21, 2011. The survey was conducted in English and Spanish and on landline and cell phones. N for people who read a book in any format in the past 12 months=2,474.

# E-books and students

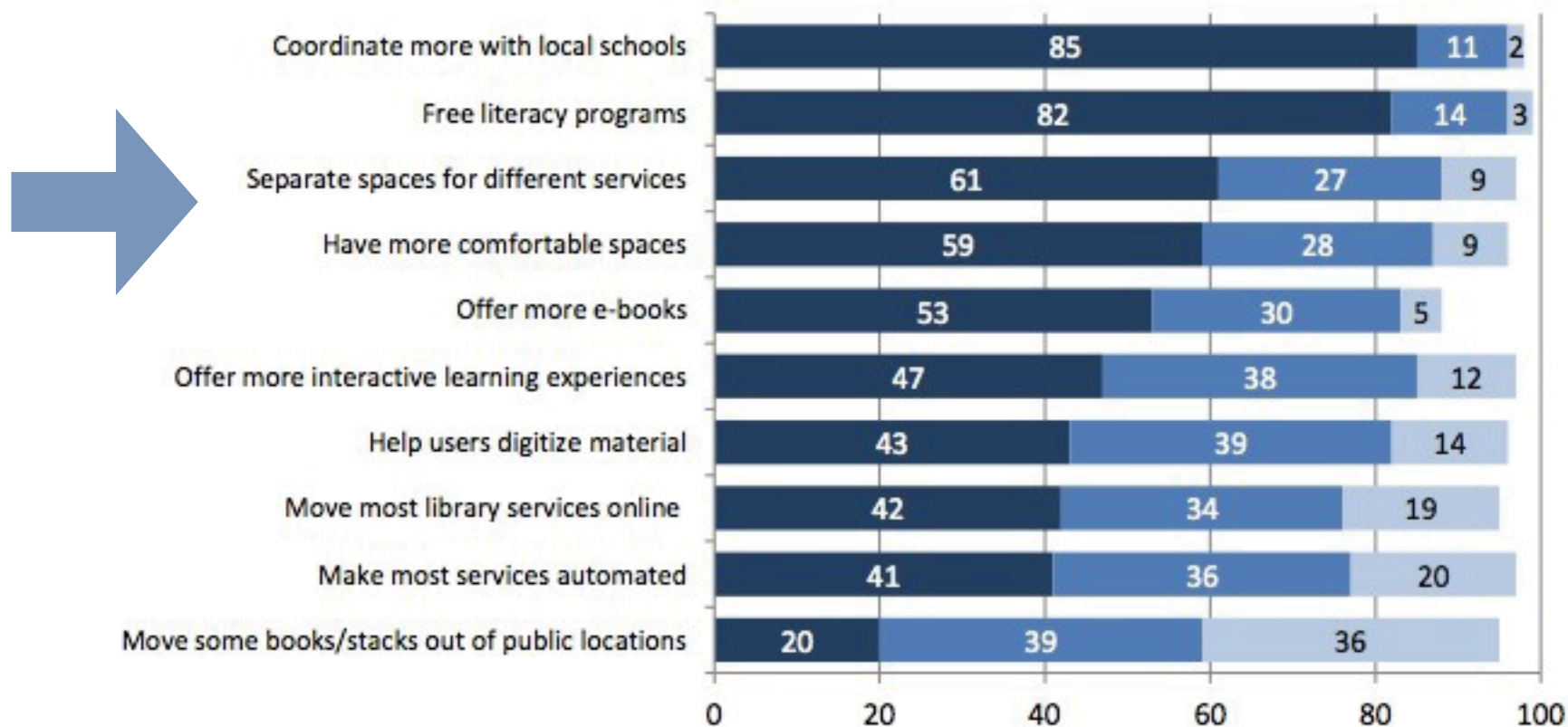
<http://libraries.pewinternet.org/2012/12/27/e-book-reading-jumps-print-book-reading-declines/>



## What services and programs libraries should (and should not) implement

Among all Americans ages 16+, the percentage who say their library should implement the following programs

■ Should definitely do   ■ Should maybe do   ■ Should definitely not do



Source: Pew Research Center Internet & American Life Project Library Survey, October 15–November 10, 2010

# Library spaces and students

<http://libraries.pewinternet.org/>





# What can a 21st century library look like?

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# What are the purposes of a library?

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kitchen? libratory? learning commons? studio?

# Modalities of learning

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1. Independent study
2. Peer tutoring
3. Team collaborative work
4. One on one learning
5. Lecture format/teacher centered
6. Project based learning
7. Technology based learning
8. Distance learning/Global
9. Internet research
10. Presentations

Prakish Nair





# Learning Commons

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- ❖ Student, Teacher and Librarian designed
- ❖ Learning studio with technology, books, librarians, technologists and other learning specialists
- ❖ Areas for individual or group work or classroom work

“If they build it, they will use it.”  
David Loertscher



WIKIPEDIA  
*The Free Encyclopedia*





photo by Eric Schlegal

# Social emotional support

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# Teacher support

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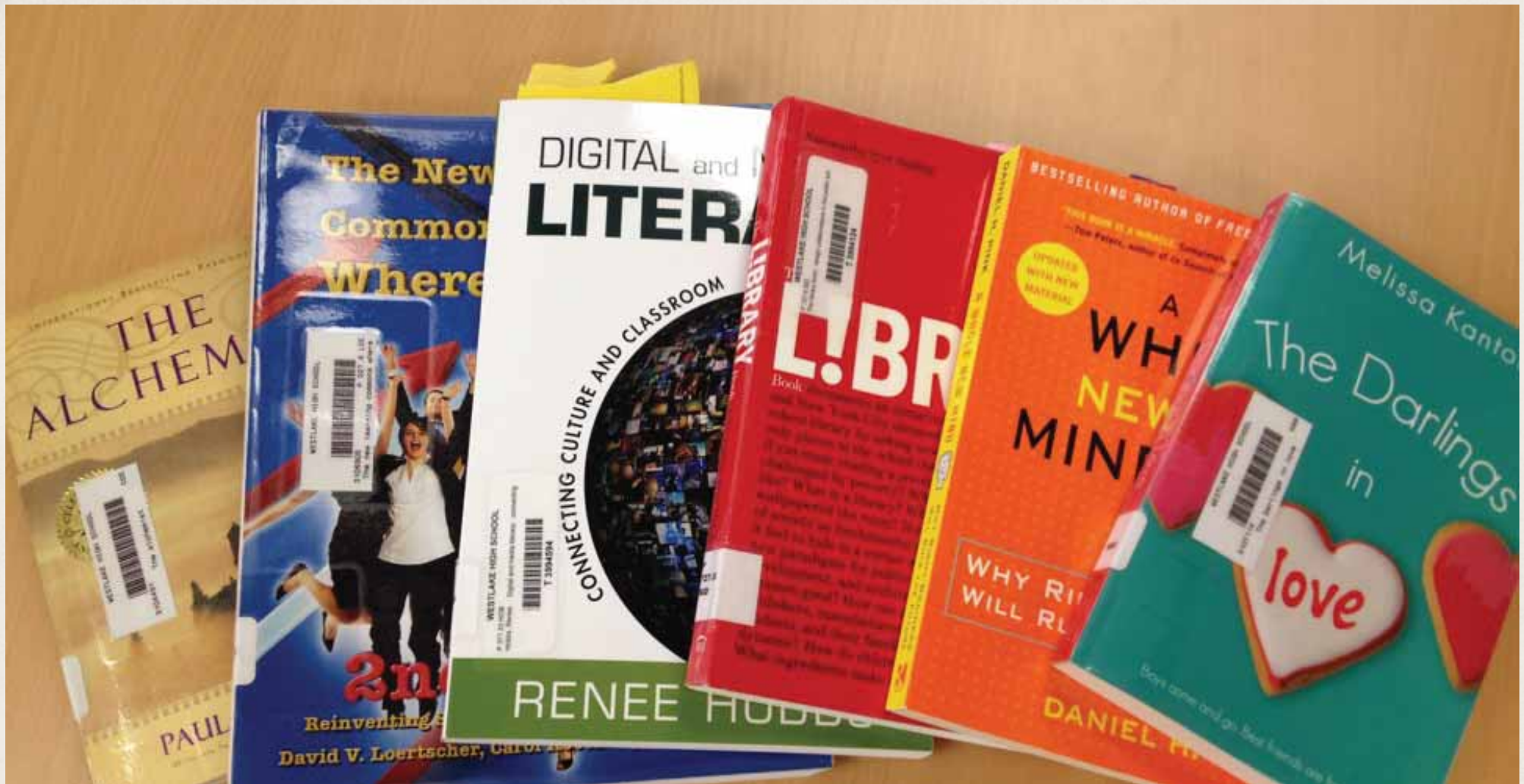
# What is a 21st century librarian?

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A word cloud illustrating various roles and skills associated with librarianship. The words are arranged in a circular pattern around the central word 'collaborator'. The words include: professional, literacy, technologist, media, promotor, mentor, programmer, book, info, development, specialist, teacher, learner, reader, and collaborator. The word 'collaborator' is the largest and is colored green, while the word 'librarian' is the second largest and is colored dark blue. The other words are in various shades of blue and green.

professional  
literacy  
technologist  
media  
promotor  
mentor  
programmer  
book  
info  
development  
specialist  
collaborator  
teacher  
learner  
reader  
librarian





# Unique expertise

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# Instructional partner



# AASL standards

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The infographic is titled 'STANDARDS FOR THE 21st-CENTURY LEARNER' in a blue header. Below the header, on an orange background, is the text 'LEARNERS USE SKILLS, RESOURCES, & TOOLS TO:'. A vertical yellow bar on the left contains four numbered circles: 1 (maroon), 2 (green), 3 (yellow), and 4 (blue). Each number corresponds to a skill listed to its right.

**STANDARDS FOR THE 21st-CENTURY LEARNER**

**LEARNERS USE SKILLS, RESOURCES, & TOOLS TO:**

- 1** Inquire, think critically, and gain knowledge.
- 2** Draw conclusions, make informed decisions, apply knowledge to new situations, and create new knowledge.
- 3** Share knowledge and participate ethically and productively as members of our democratic society.
- 4** Pursue personal and aesthetic growth.



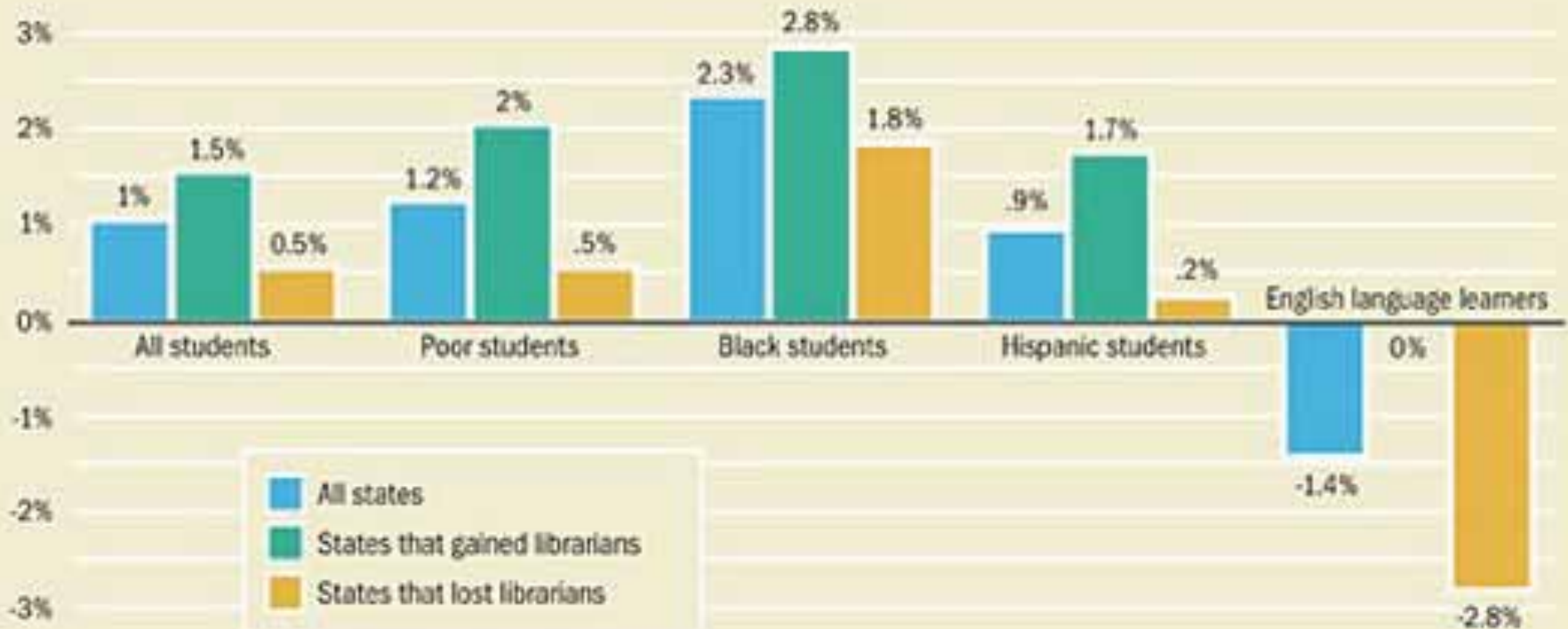
# ISTE NETS for students

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CHART A.

Percent Change in Fourth-Grade NAEP Test Scores, 2004-2005 to 2008-2009



# Studies show...

[http://www.schoollibraryjournal.com/slj/home/891612-312/something to shout about new.html.csp](http://www.schoollibraryjournal.com/slj/home/891612-312/something%20to%20shout%20about%20new.html.csp)

**Change in School  
Librarian Staffing Linked  
with Change in CSAP  
Reading Performance, 2005  
to 2011**

January 2012

Keith Curry Lance  
Linda Hofschire

A CLOSER LOOK

Studies show...

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[Http://www.schoollibraryjournal.com/slj/home/891612-312/something\\_to\\_shout\\_about\\_new.html.csp](http://www.schoollibraryjournal.com/slj/home/891612-312/something_to_shout_about_new.html.csp)



origin  
'human being' + -ology  
**anthropology** /,ar  
kind, including the  
cultures and the

# What do our students tell us?

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What kind of  
space do you like  
to study in?





Thursday, April 4, 2013

# ❖ What would ideal library look like?

“quiet, but not too quiet”

“...where ‘even if you’re by yourself, you don’t feel like you’re by yourself,’ as one participant put it.”

“‘coffeeshop’ feel or ‘living room atmosphere,’ where they could mingle with other people if they wanted to, but can do their own thing if not.”

“‘like home room for your community.’”

Rainie and Zickuhr. Pew Internet Project: Library Services in the Digital Age.

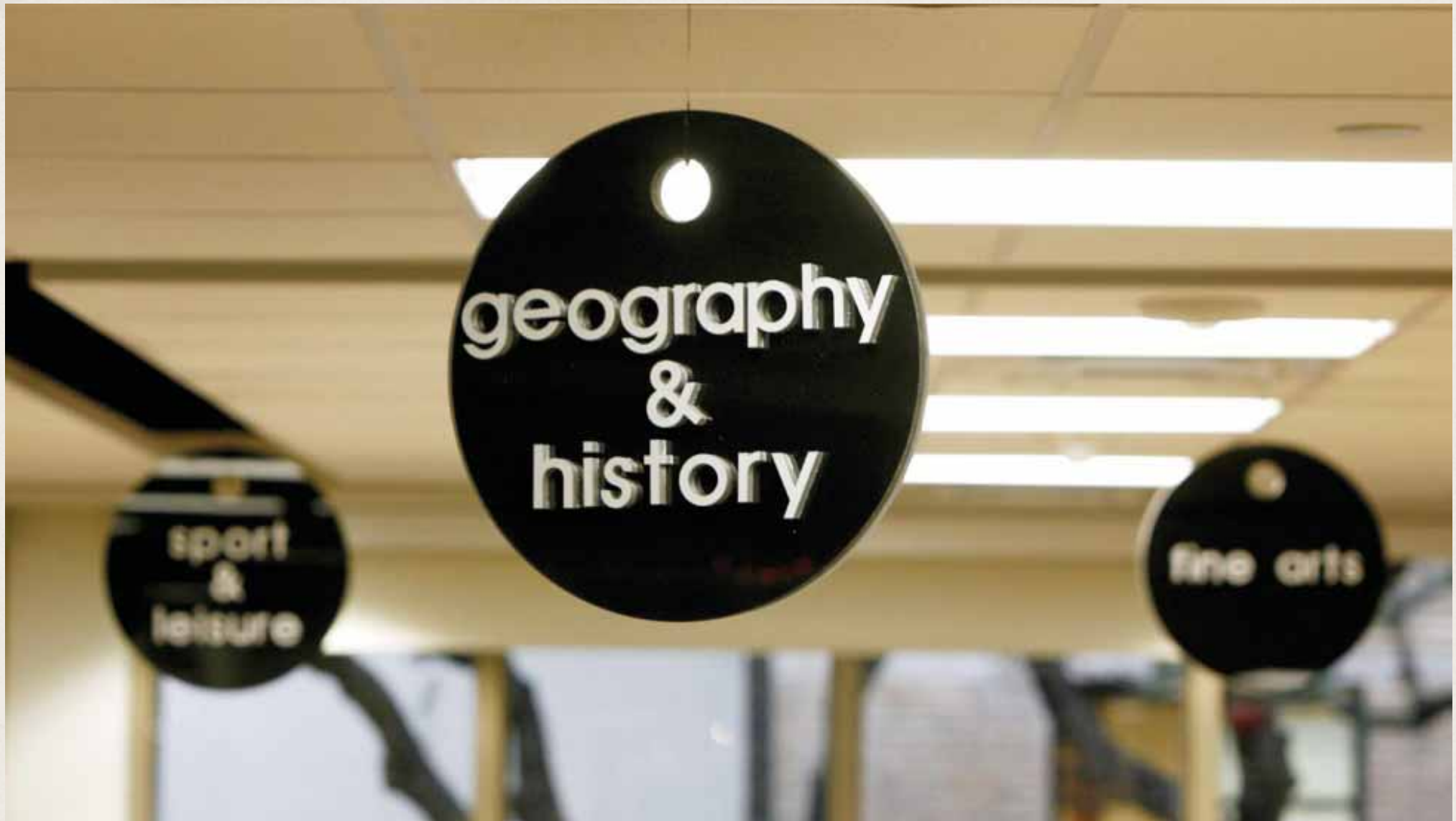
<http://libraries.pewinternet.org/2013/01/22/Library-services/>





# How can spaces reflect this?

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*Photograph by Erich Schlegal*

# Case Study: Westlake HS Library Renovation





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# WHS Library – Original Interior

2007)

*(photograph*



- Dim Lighting
- Low Ceiling
- Subdued Ambience
- Institutional Furniture
- Closed off
- Obstructed Visibility

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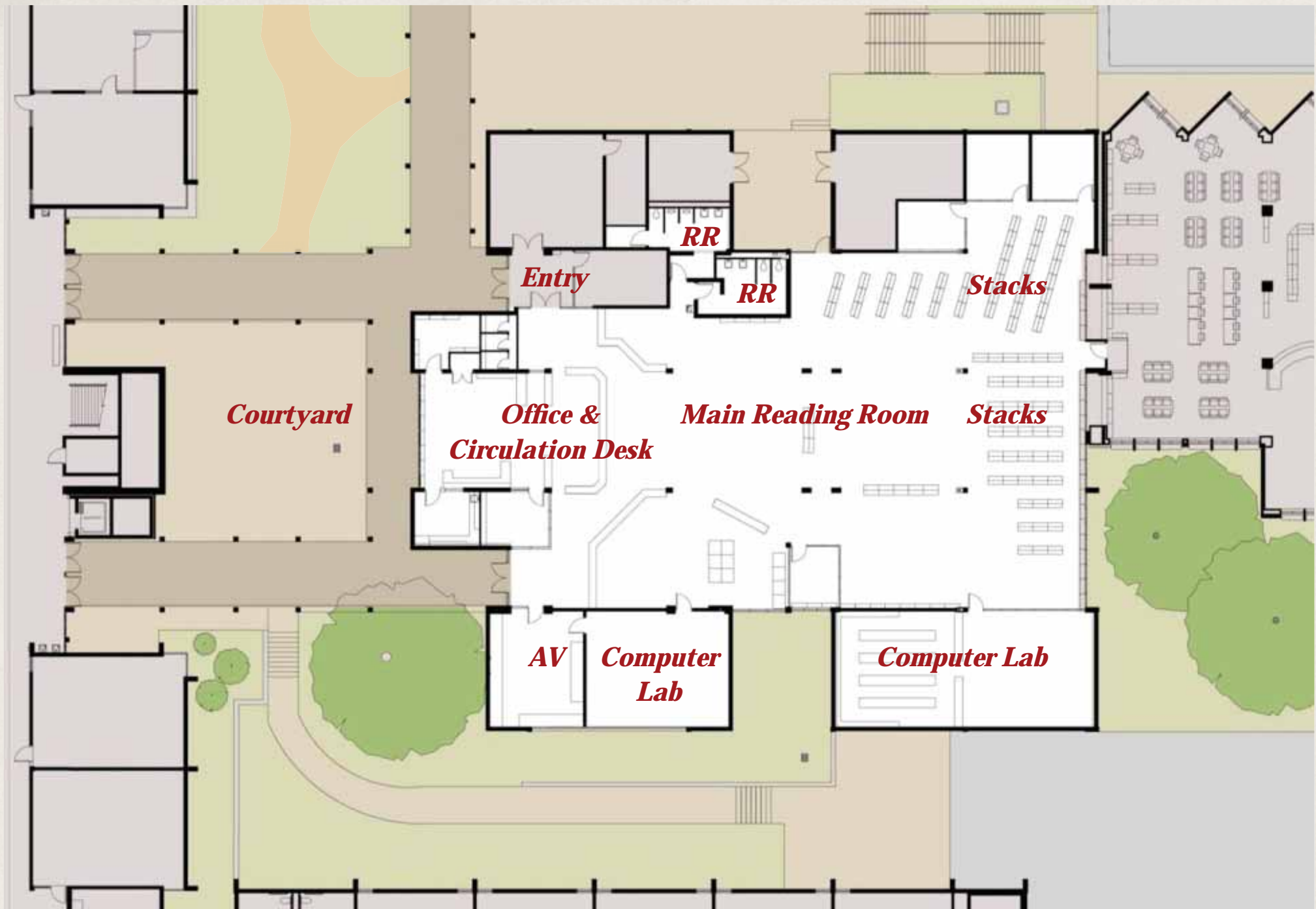
## Issues





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## WHS Library – Original Entry

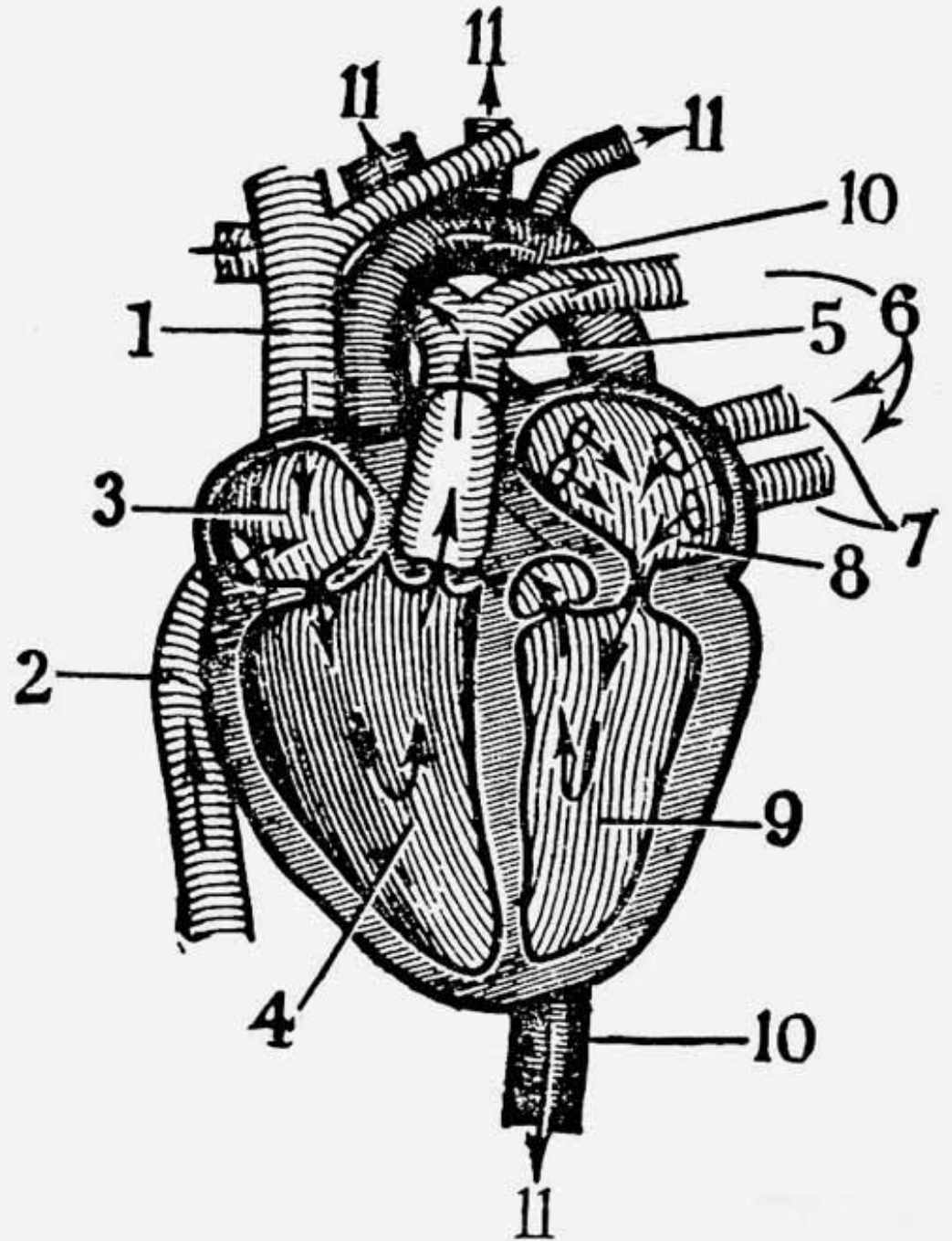


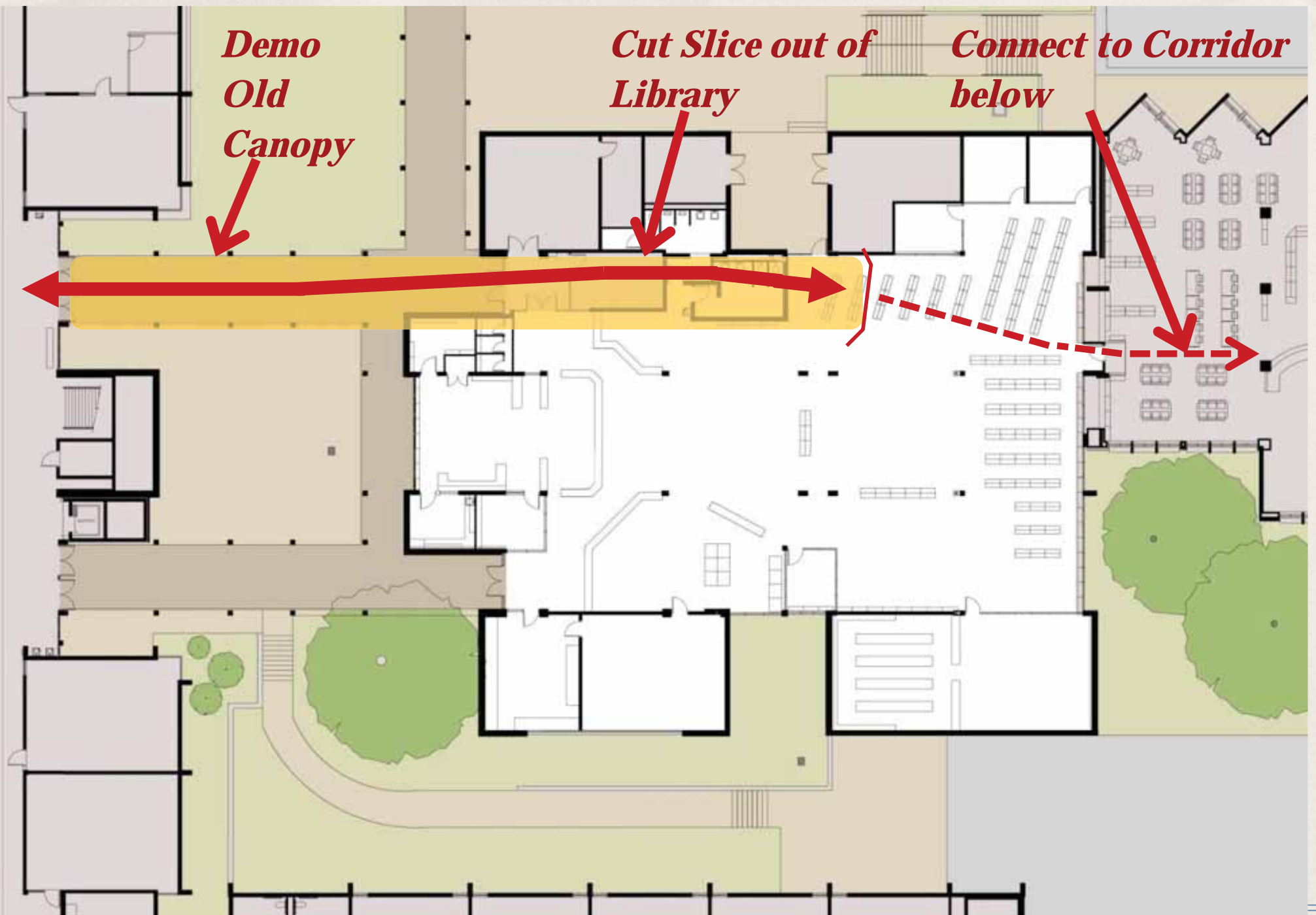
# WHS Library – Original Floor Plan



**“Libraries should be  
the beating heart of  
the school, not  
mausoleums for  
dusty books.”**

*Stephanie Harvey*



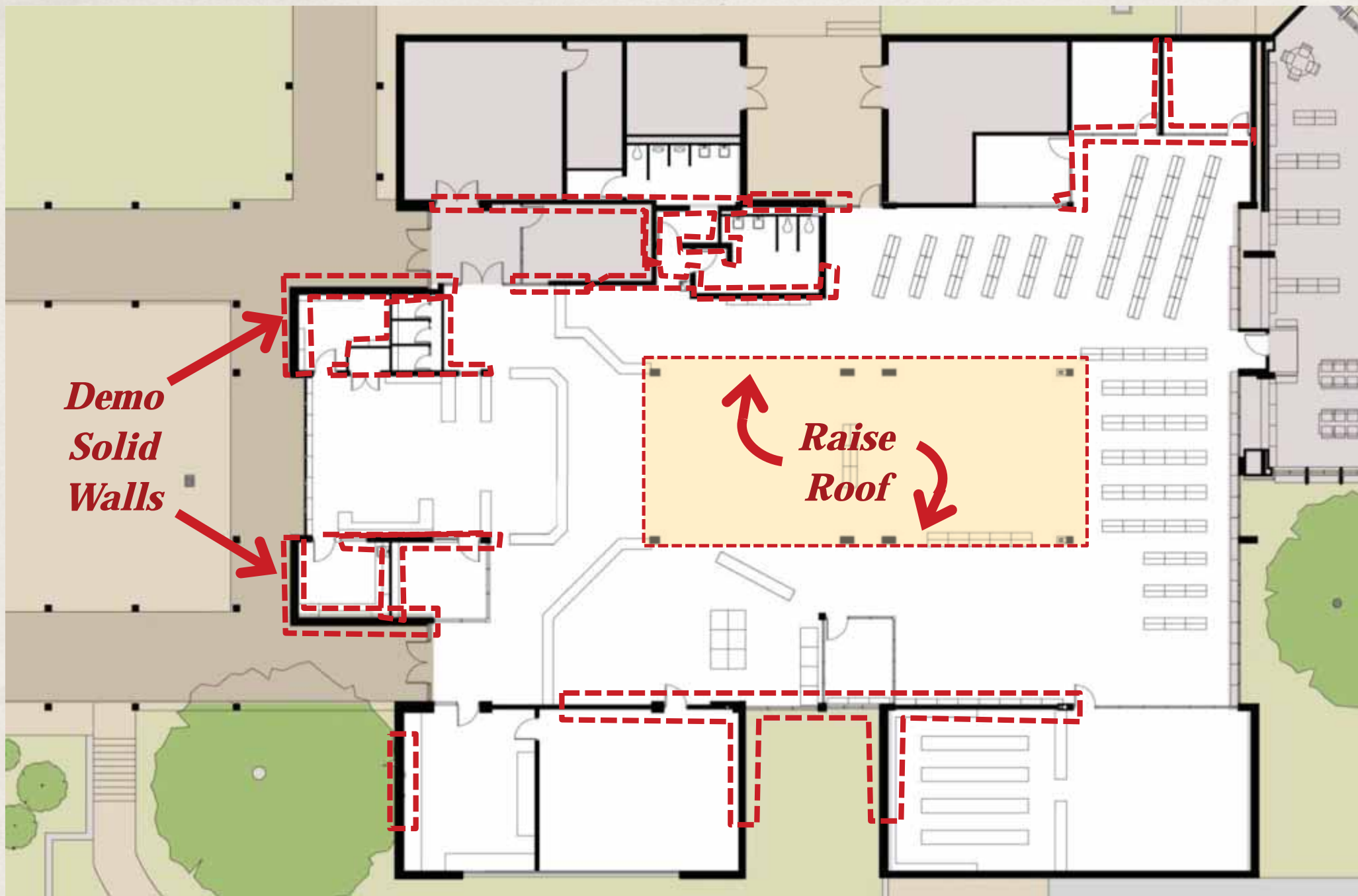


1 – Improve Access (open heart surgery)



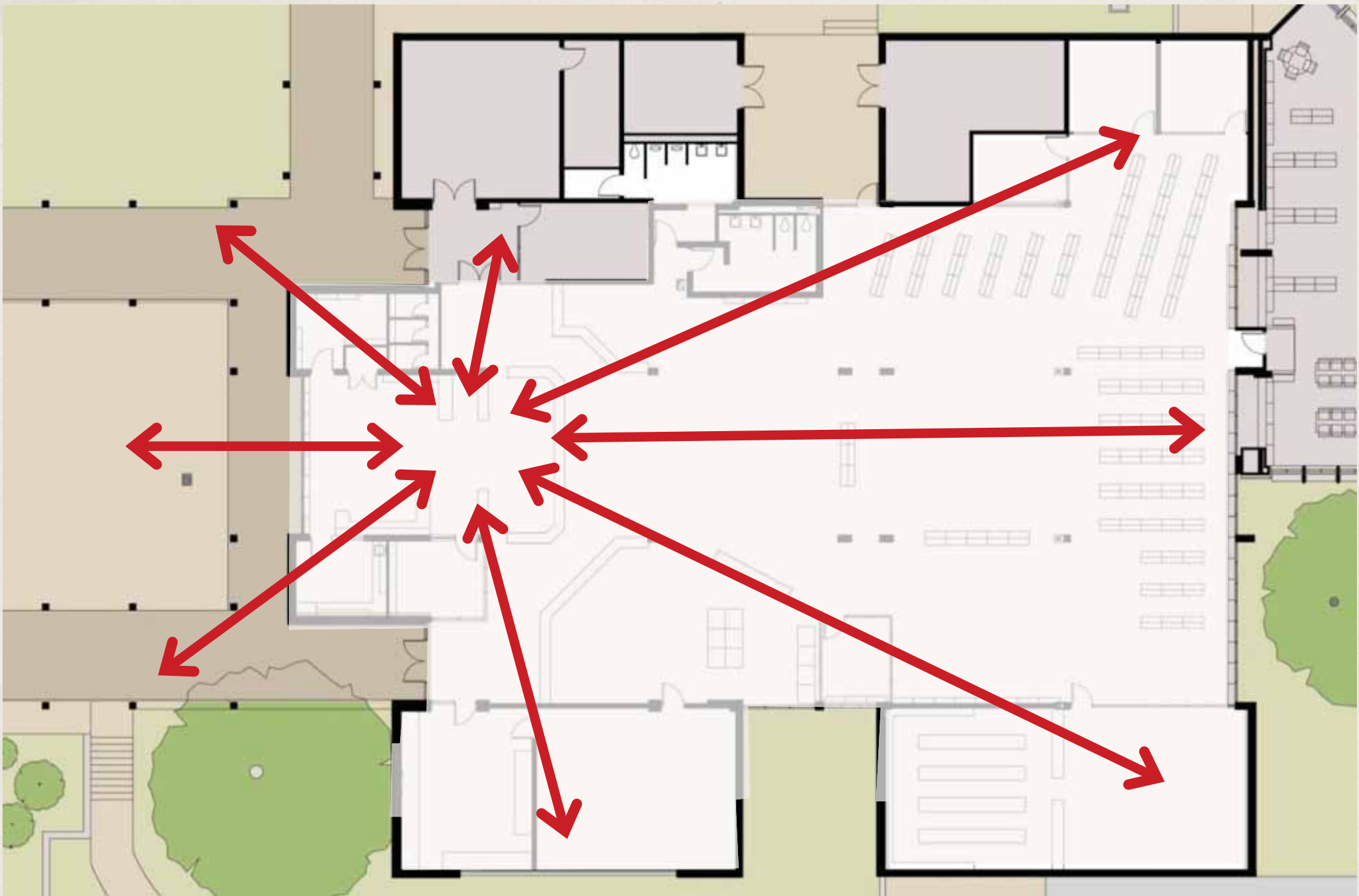


Improve Access – new campus-wide pathway



## 2 – Opening to Outside





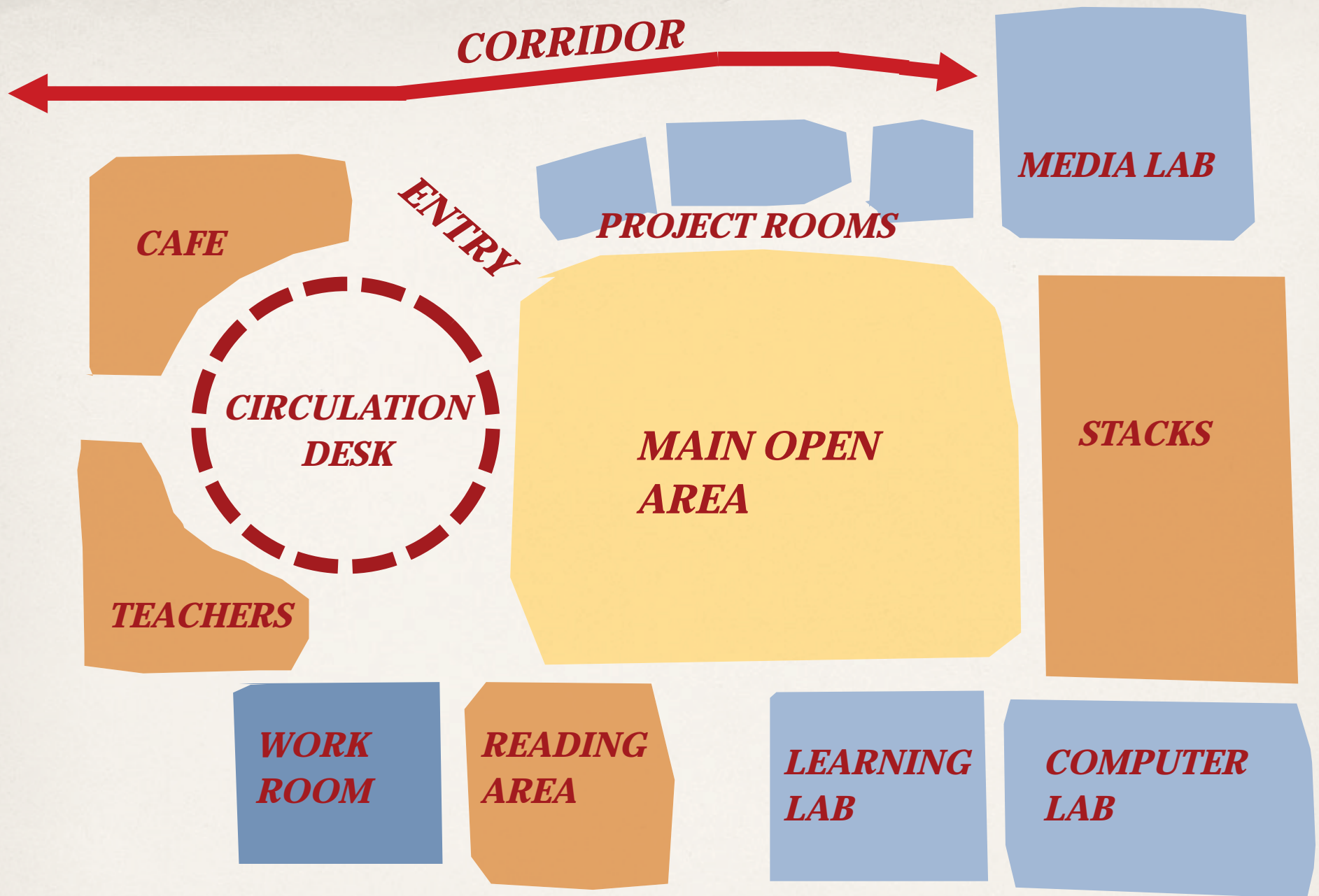
### 3 - Reconfigure for Visibility and Interaction

## ***INPUT FROM LIBRARY STAFF:***

- ***Improve visual and pedestrian connection with the rest of the campus***
  - ***Increase natural light and visibility to outside***
  - ***Reconfigure for better visibility within library***
  - ***Raise portion of roof for space, natural light***
  - ***Teacher collaboration areas***
  - ***Offer access to technology for all***
  - ***Wireless and gadget friendly, instructional technology hub***
  - ***Provide flexible areas for individual and group research and projects***
  - ***Student browsing/reading areas***
  - ***Create a more usable outdoor space***
  - ***Flexible Project Labs***
  - ***Learning studio environment***
  - ***Quiet and less quiet study areas***
  - ***A place for students and teachers to collaborate.***
  - ***Flexibility of use***
  - ***Community center for teachers, students and parents***
  - ***Serve as the information and social hub for the campus***
- 

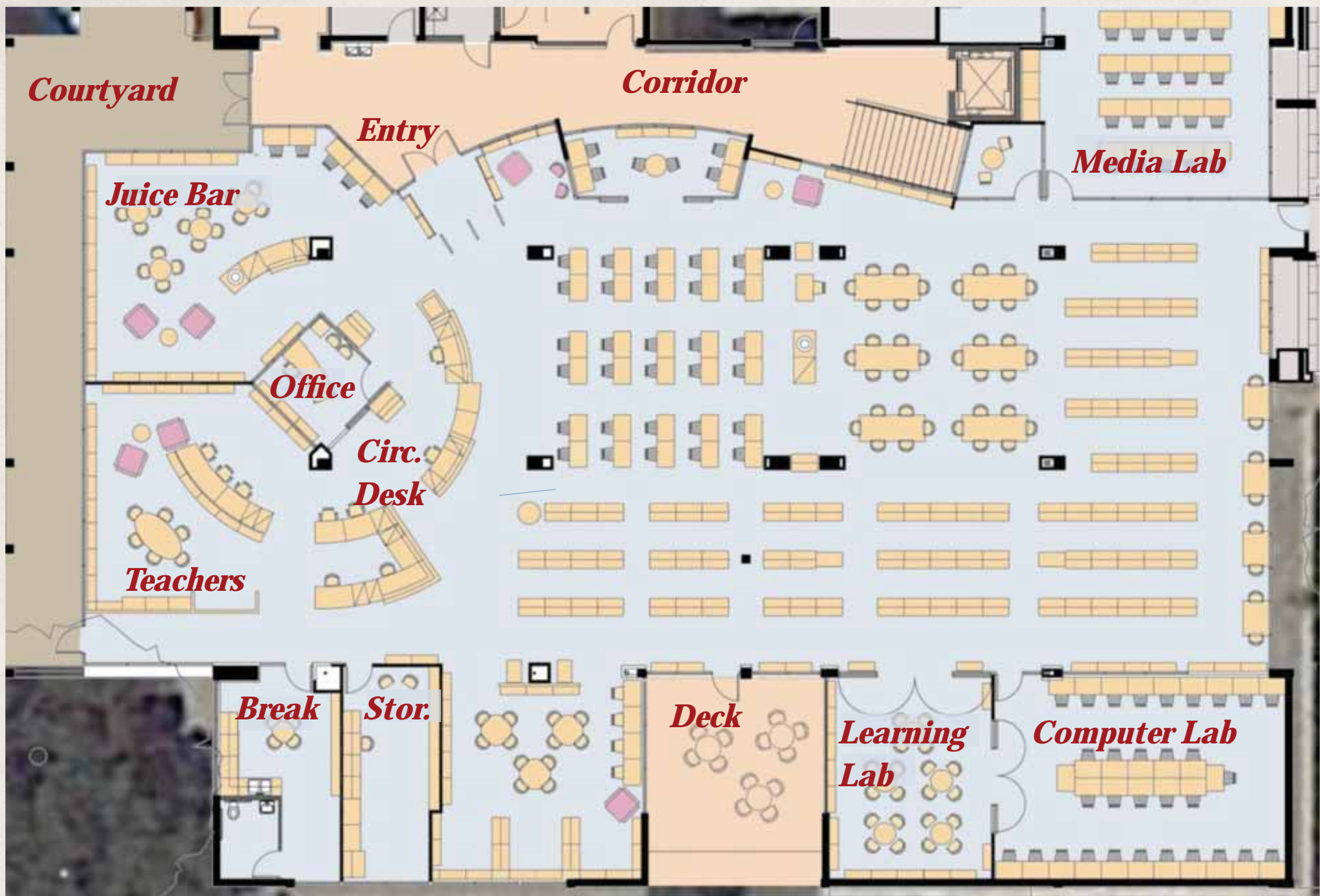
## Goals and Concepts





# Westlake HS Library – Learning Studio

Concept



Westlake HS Library - New Floor Plan





Photograph by Erich Schlegal

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***Improve visual and pedestrian connection with the rest of  
the campus***

Thursday, April 4, 2013





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***Improve visual and pedestrian connection with the rest of the campus***

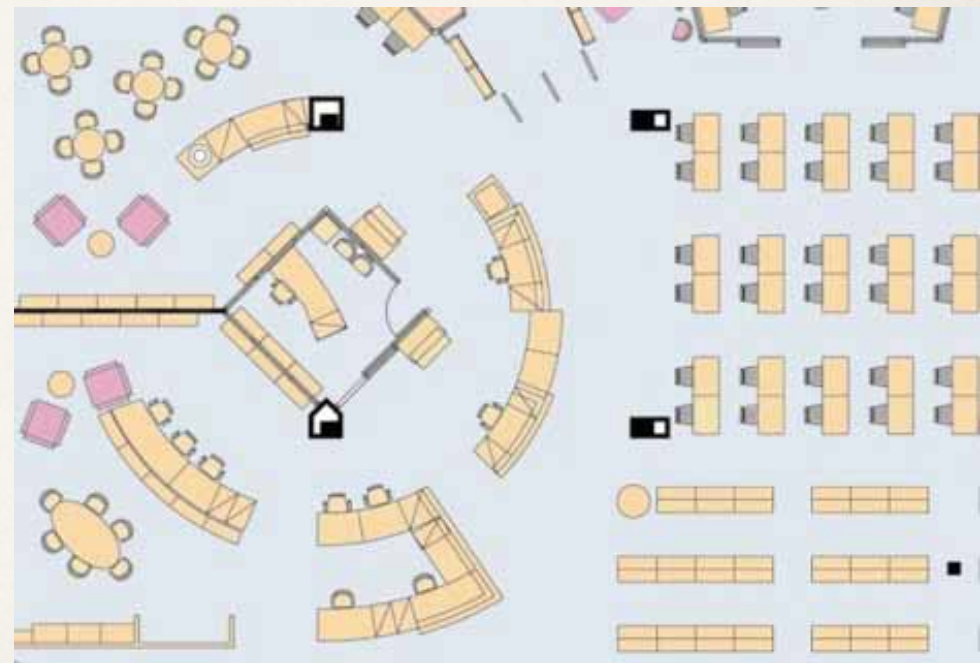
Thursday, April 4, 2013





***Increase natural light and visibility to outside***





*Reconfigure for better visibility within library*





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***Raise portion of roof for space, natural light***





## *Teacher collaboration areas*





*Offer access to technology for all*





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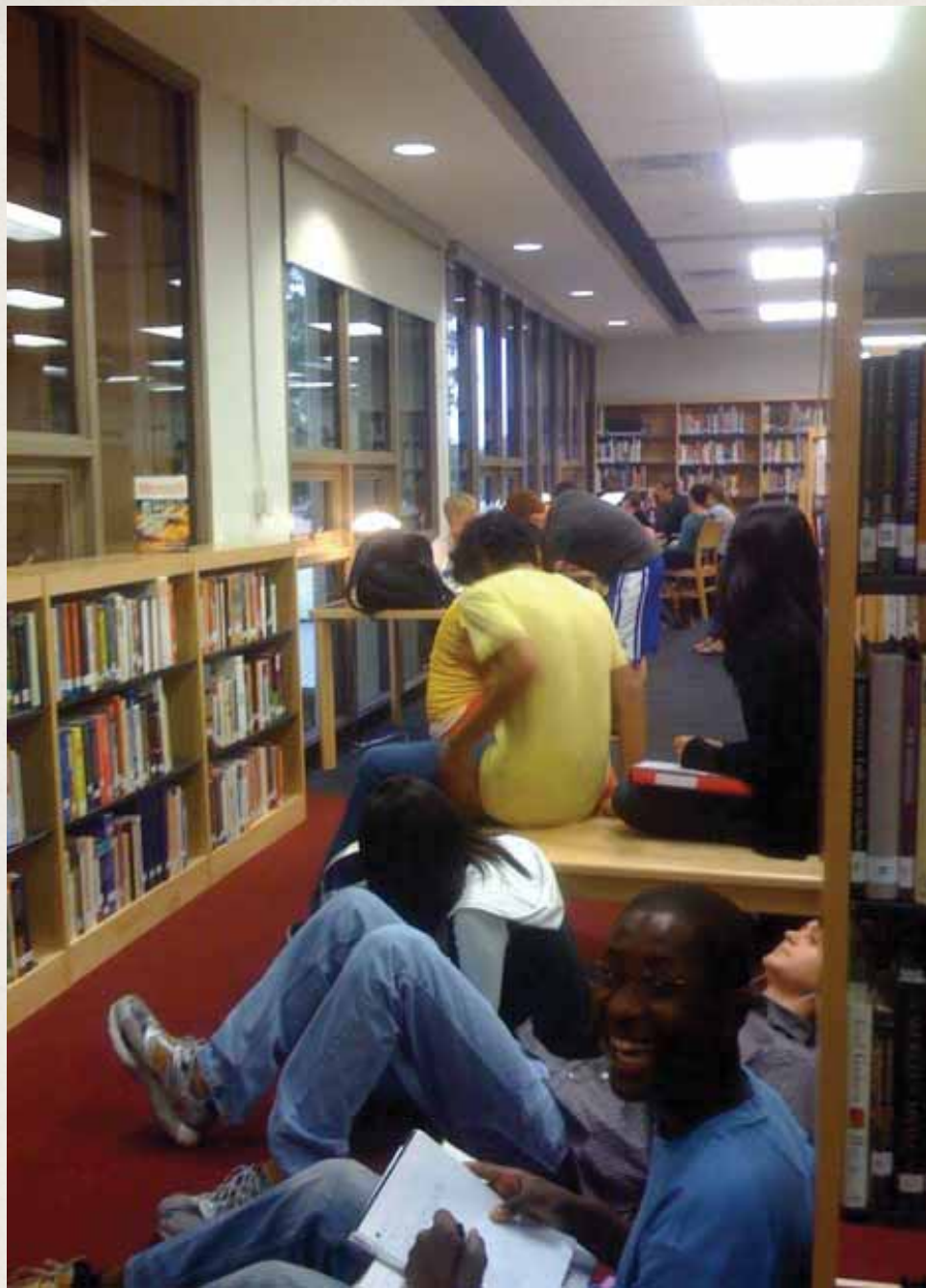
***Wireless and gadget friendly, instructional technology hub***





*provide flexible areas for individual and group  
research and projects*





## *Student browsing/reading areas*





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*Create a more usable outdoor space*



## ***Flexible project Labs***





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## *Learning studio environment*





## *Quiet and less quiet study areas*





## *Quiet and less quiet study areas*





*A place for students and teachers to collaborate.*





## *Flexibility of use*





*Community center for teachers, students and parents*





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***Serve as the information and social hub for the campus.***

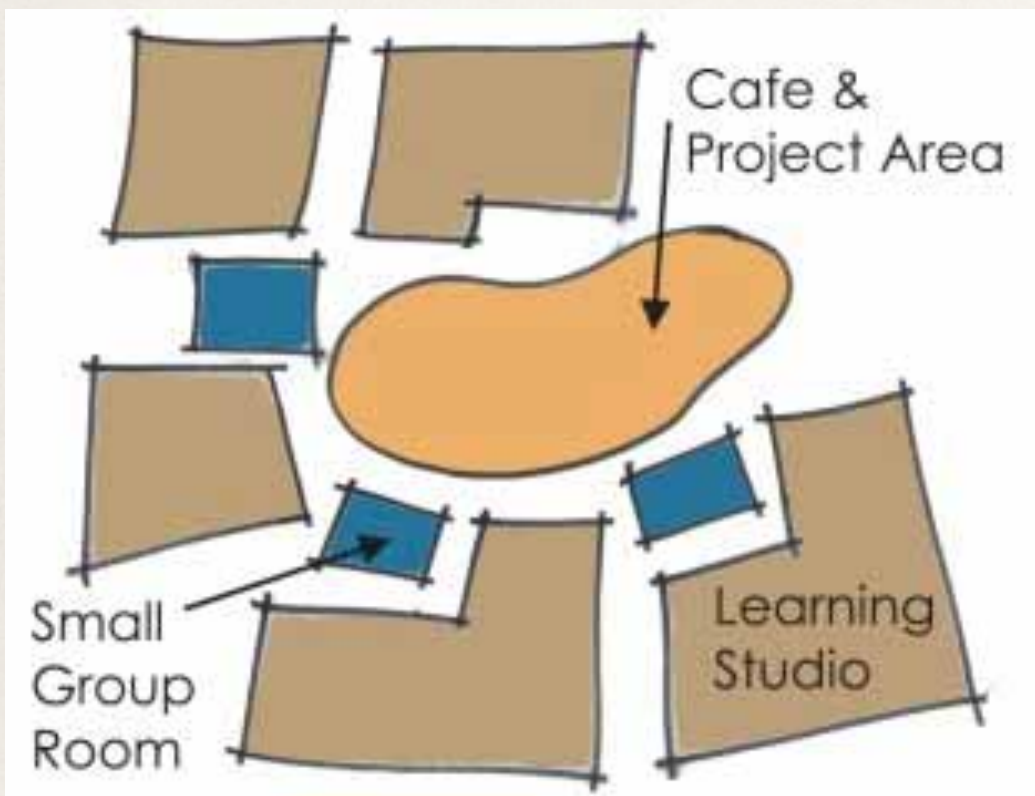




# Inspiration

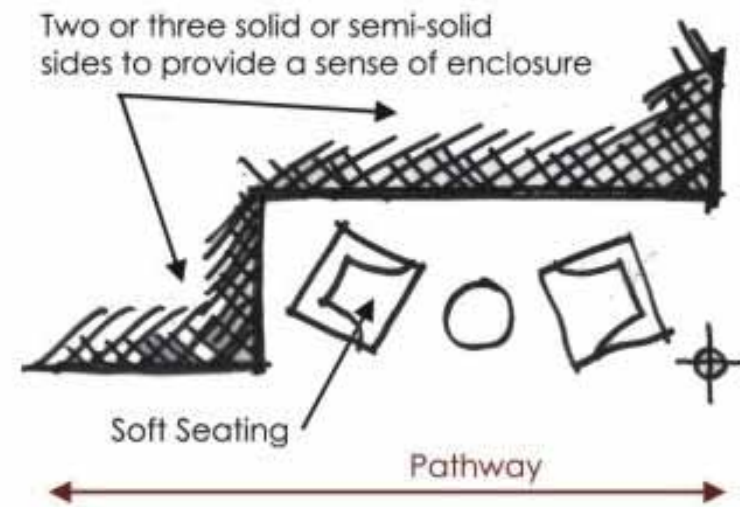
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### Cave Space

**Places for individual study, reflection, quiet reading and are rare in school.**



It is true that libraries to e independent problem with are mostly s adult's view should be. T keep a libr make it opp Schools need areas that ca Spaces.

# Variety of spaces

Fielding and Nair. **Language of School Design**  
<http://www.designshare.com/index.php/design-patterns/cave-space>



# Building connections not collections

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# Evolution and followup

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# iLab concept

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[http://www.youtube.com/watch?feature=player\\_embedded&v=3nwc7N6BaQc#!](http://www.youtube.com/watch?feature=player_embedded&v=3nwc7N6BaQc#!)





Supporting creativity, curiosity,  
community, remixing, learning

# Resources

- ❖ Fielding and Nair. **Language of School Design.**
- ❖ Siddiqi. **The Library Book.**(Robin Hood foundation)
- ❖ Doorley and Witthoft. **Make Space.** (Stanford d.school)
- ❖ Loertscher, et. al. **The New Learning Commons.**
- ❖ Pew Internet Research  
<http://libraries.pewinternet.org/>
- ❖ <http://www.futura.edublogs.org/design>
- ❖ <http://pflugerarchitects.com>



# Contact us

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Sean Connor

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