Law

Geography

ychology

BRAIN + SPACE + LEARNING

INTERSECTIONAL LEARNING FOR THE INNOVATION ECONOMY

TOMAS ELIAESON AIA, M.Arch, LEED®AP BD+C CAROL RICKARD-BRIDEAU AIA, WELL, LEED®AP BD+C Poetry



Brain Space Learning: Empower Learning for the Innovation Economy

TH302 Thursday, April 27, 2017





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Questions related to specific products and services may be addressed at the conclusion of this presentation.



Speakers List

- Tomas Eliaeson: Partner | Director of Design, Little
- Carolyn Rickard-Brideau: Partner | Global Practice Leader - Workplace, Little



Course / Learning Objectives

- Recognize our new reality: We will send kids into an exponentially more creative, innovative, and collaborative economy.
- Understand the scientific basis of salutogenic design (the concepts behind the WELL Building Standard).
- Design a comfortable and optimal learning environment based on the principles of neuroscience, wellness, and twenty-first century learning.
- See how Invest Collegiate has addressed critical learning challenges.



Law

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BRAIN + SPACE + LEARNING

INTERSECTIONAL LEARNING FOR THE INNOVATION ECONOMY

TOMAS ELIAESON AIA, M.Arch, LEED®AP BD+C CAROL RICKARD-BRIDEAU AIA, WELL, LEED®AP BD+C Poetry



Geography

LEARNING OBJECTIVES

1. LEARNING FOR TOMORROW Learning for the Innovation Economy

- **2. NEUROSCIENCE OF LEARNING** Learning with the Brain in Mind
- **3. WELLNESS AND LEARNING** Effective and Optimal Learning
- 4. IMMERSIVE LEARNINGSCAPE Bringing it all together



Outside of curriculum, in your opinion which of the following has the biggest

IMPACT ON STUDENT SUCCESS?



In your opinion, are our schools adequately preparing students to succeed IN AN INNOVATION ECONOMY?

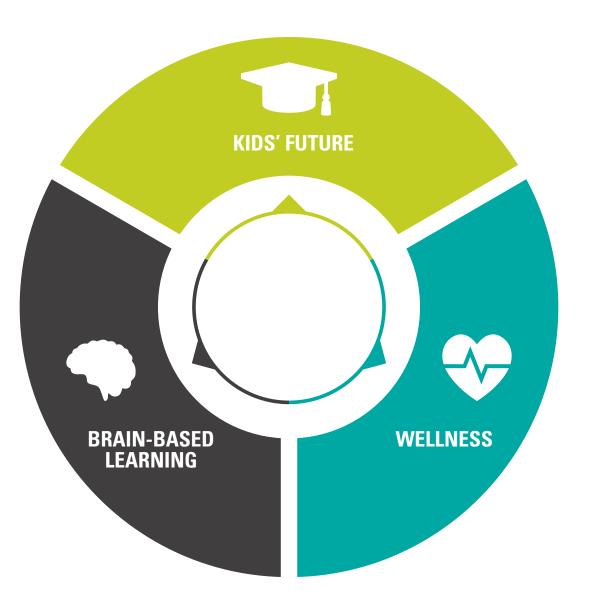


Finish this statement:

TODAY, MOST LEARNING ENVIRONMENTS ARE DESIGNED FOR____.



LEARNING WITH THE BRAIN & BODY IN MIND





Law

Geography

ychology

Physics

LEARNING FOR TOMORROW

LEARNING FOR THE INNOVATION ECONOMY

Mathematics

Poetry



Art History

hemistry



LOS ANGELES INNOVATION WEEK(S) OCT. 2-22, 2015

INNOVATION

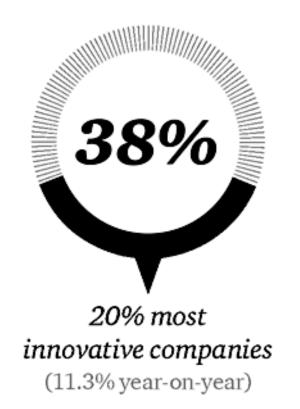
AND

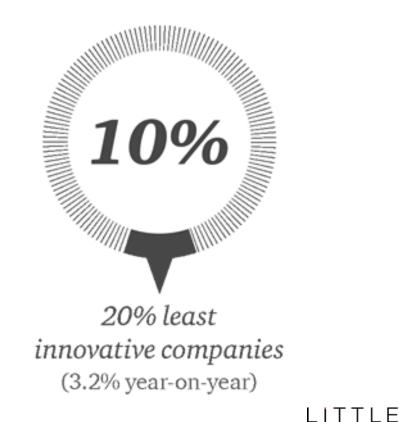
CHANGE

Innovation is the driver of today's World



the most innovative companies are **GROWING SIGNIFICANTLY FASTER** than the least innovative





IW .

Geography

sycholog3

Phynics

WORKPLACE TODDAY

Linguistics

Biology

Mathematics

Art History

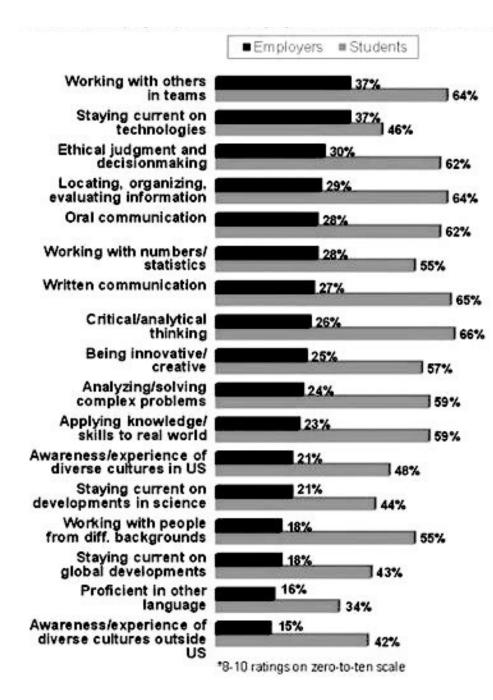
Chemistry

Poetry



What skill do you wish we were TEACHING MORE OF IN SCHOOLS TODAY?





READY FOR WORK?

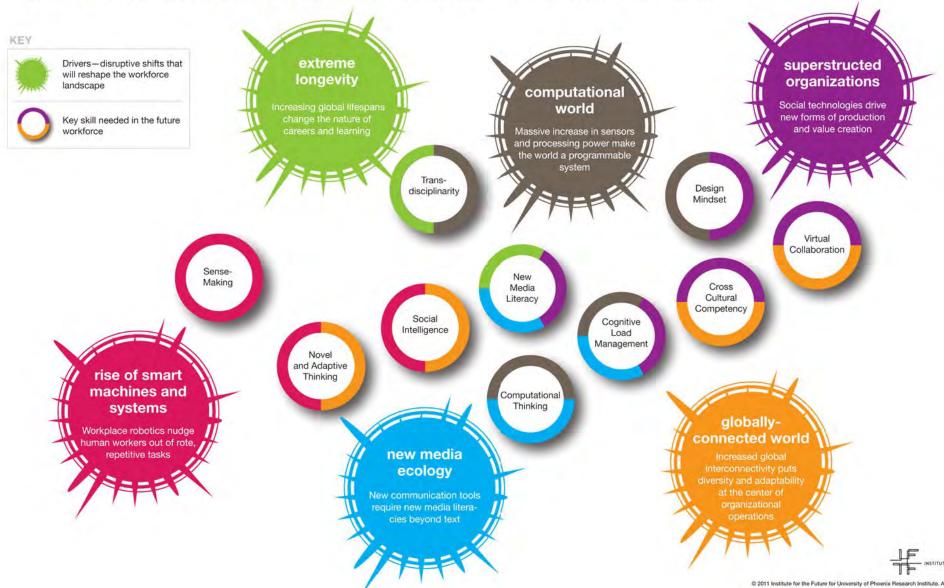
Employers give college graduates low scores on preparedness across learning outcomes

Students think they are better prepared

INSTITUTE FOR THE FUTURE

Future Work Skills 2020

While all six drivers are important in shaping the landscape in which each skill emerges, the color-coding and placement here indicate which drivers have particular relevance to the development of each of the skills.



LIVING IN A

VOLATILITY rate of change

UNCERTAINTY

unclear about present situations and future outcomes **COMPLEXITY** multiplicity of key decision factors AMBIGUITY lack of clarity about the meaning of an event

WORLD



Law.

Geography

ychology

Physics.

HIGHER ED TODAY

Biology

Mathematic

Art History

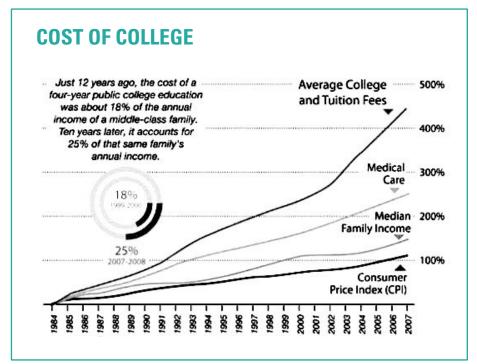
The mistry

Poetry

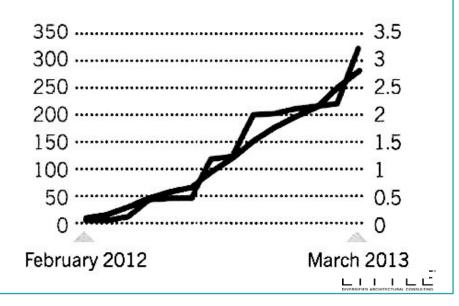


COLLEGE GRADUATION RATES

4 out of 10 graduate in 4 years

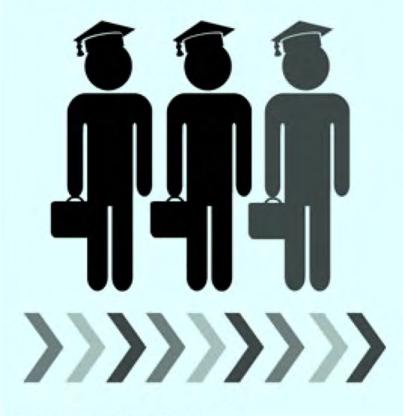


RISE OF MASSIVE OPEN ONLINE COURSES



RECENT GRADUATES

in **B** college-educated workers do not work in occupations related to their college major.



Sources: www.careerbuilder.com/

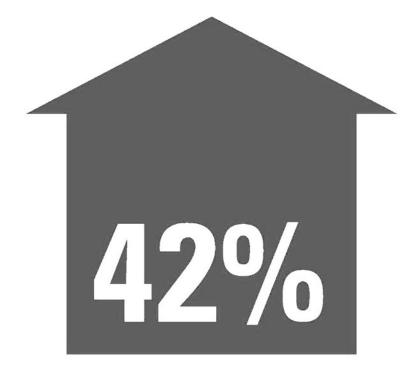
Nearly half (**47 percent**) of college educated workers reported their first job out of college was not related to their major.

> **32%** of college-educated workers report they have **never** found a job related to their college major. Among workers age 35 or older, 31 percent report never findnig a job in their field.



BEYOND THE 'BUZZ' "The illiterate of the 21st century will not be those who cannot read and write, but those who cannot learn, unlearn, and relearn." - ALVIN TOFFLER

TREND: THE GROWTH OF INTERDISCIPLINARY MAJORS



Increase in schools offering university-created interdisciplinary degrees

*College Board's "Annual Survey of Colleges"

At Olin College, nearly half of the students create their own interdisciplinary majors



THE GROWTH OF INTERDISCIPLINARY MAJORS

- 1. Ecosystems
- 2. Nanotechnology
- 3. Mechatronics
- 4. Bio-systems
- 5. Neuro-Experience
- 6. Bio-Chemical
- 7. Bio-Medical
- 8. Geo-Genetics

- 9. Geo-Matics
- **10. Carbon Negative Design**
- 11. Integrated Engineering
- 12. Integrated Science
- 13. Bio-Infomatics
- 14. Manufacturing Systems
- 15. Computational Biology



THE RISE OF 'CREATE YOUR OWN MAJOR'

BIOETHICS IN CROSS-CULTURAL PERSPECTIV PFACE AND CONFLICT RES IENI



Geography

eycholog3

Phynics

KNOVVLEDGE TODDAY

Languistics

Biology

Mathematics

Art History

Chemistry

Postry



What changes would you propose to our current education model **TO IMPROVE IT?**



Law

Geography

ychology

Physics **1**

LESS CONTENT MORE INQUIRY

Linguistics

Biology

Mathematics

Poetry

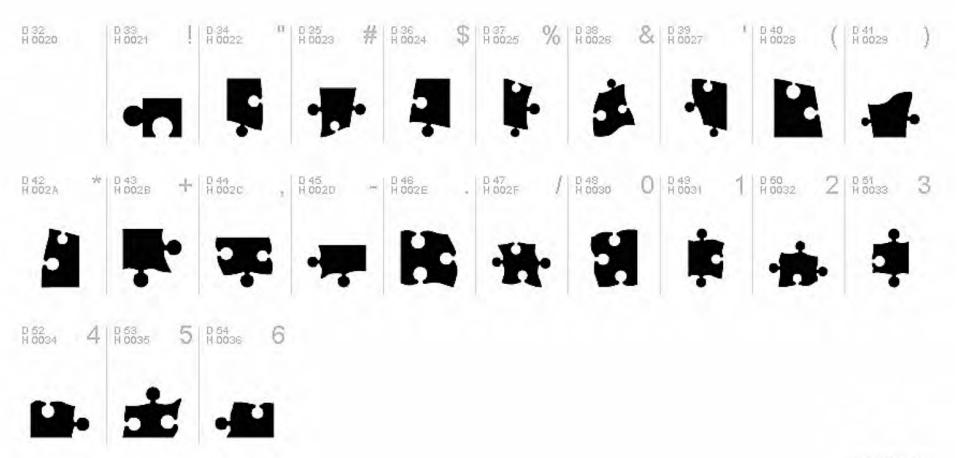
Art History

Chemistry

"What matters today, however, is not how much our students know, but what they can do with what they know."

TONY WAGNER Expert In Residence at Harvard University's new Innovation Lab

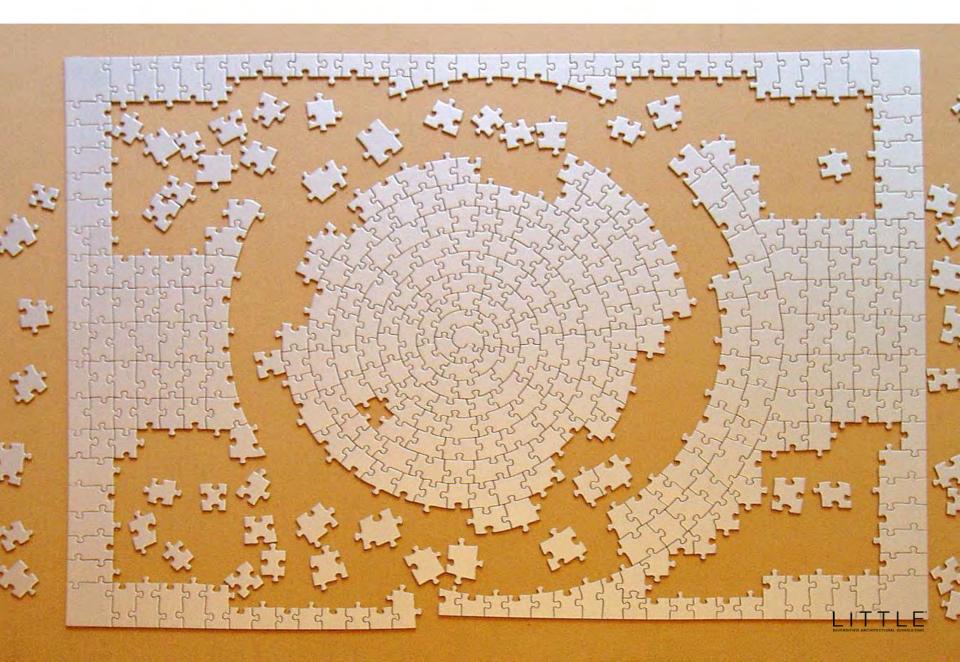
KNOWLEDGE TODAY: PUZZLE PIECES



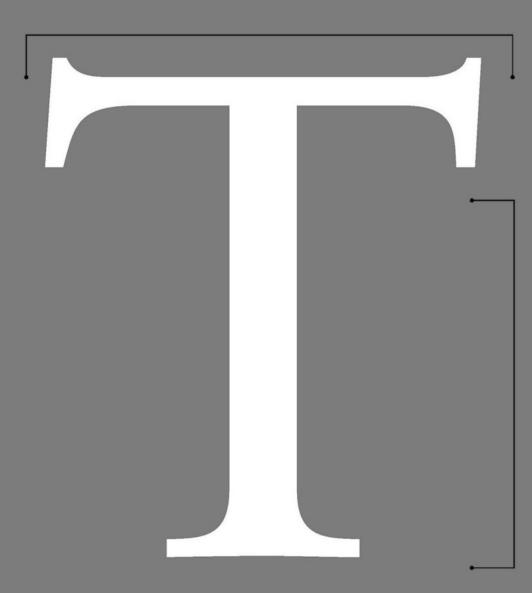
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DIVERSIFIED ARCHITECTURAL CONSULTING

KNOWLEDGE TOMORROW: THE BIG PUZZLE



IN SEARCH OF T-SHAPED PEOPLE



Horizontal

Ability to understand multiple fields (disciplines)

Vertical Depth of understanding in the field (discipline)



L UN

Geography

TRANSDISCIPLINARITY

Sociology

DISRUPTIVE INNOVATION

dang unist here

Poetry



Chamistry



MAGAZINE

Century Learning



0

How to Prevent the Next Hurricane Katrina



IDEAS EDUCATION

Aug. 1, 2015



LATEST

Your PlayStation 4 is About to Get These New Features

VIDEOS

How To Be More Innovative in 21st

Read an 11-Year-Old's Heartwarming Essay About His Father's Return From World War II



The financial + business ne



CHASE

Connect the dots between Sciences and Humanities

Apple S in This Hu₂

CONTENT FROM FIFTH THIRD BANK, MEMBER FDIC Watch to learn how food can help cancer patients heal

How To Be More Innovative in 21st Century Learning

Sophia Krzys Acord, Kevin S Jones, Susan D Gillespie, University of Florida / The Conversation
@US_conversation



Try connecting the dots between science and humanities

day's college students may benefit from an a array of subjects to study. But they seem to nost important education of all: how to specialization to others in an interconnected world.

cademy of Engineering has

ated that today's engineers need to be ividuals who simply "like math and must be "creative problem-solvers" ape our future" by improving our ppiness, and safety."

In 2001, the engineering accreditation body ABET added a new criterion so as to ensure that students get "the broad education necessary to understand the impact of engineering solutions in a global economic environmental and societal



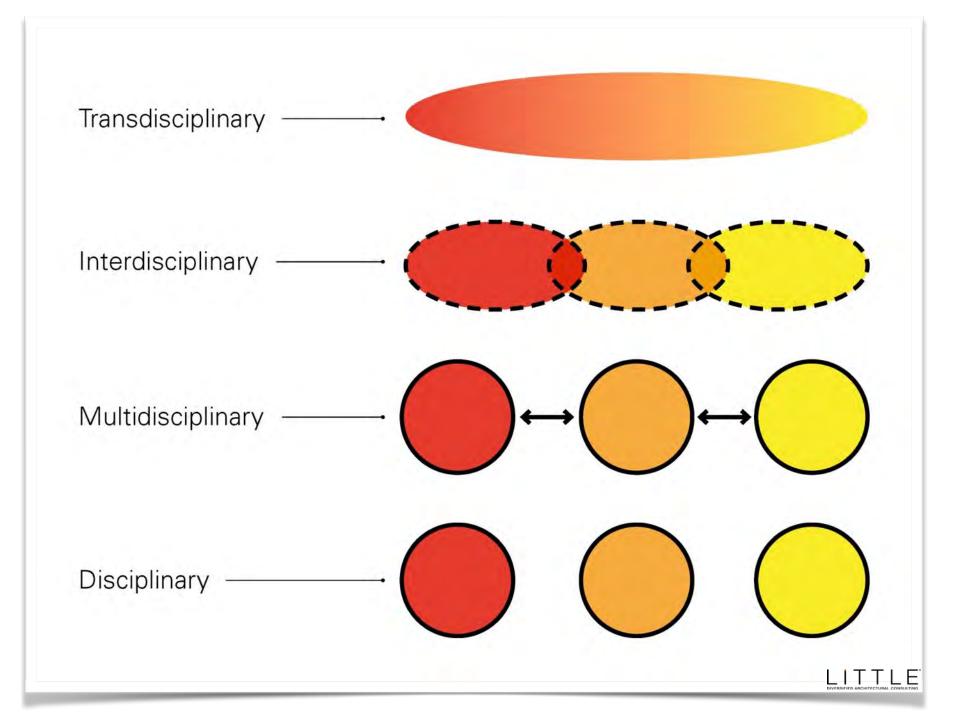


Image: superkimbo/Flick/

No more physics and maths, Finland to stop teaching individual subjects

The future is all about learning by topic, not subject.





Law

Geography

ychology

Physics

HOW ARE WE TO DESIGN LEARNING ENVIRONMENTS FOR THE

Sociology

INNOVATION ECONORY?

Linguistics

Mathematics

Poetry



Art History

hemistry

Law

Geography

ychology

Physics |

NEUROSCIENCE OF LEARNING

LEARNING WITH THE BRAIN IN MIND

Mathematics

Poetry



Art History

hemistry

POLL:

How much do you know about NEUROSCIENCE AND LEARNING?

POLL:

How much do you know about NEUROSCIENCE AND LEARNING?





A VERY UGLY ICE CREAM CONE

A BRIEF INTRODUCTION TO YOUR BRAIN



THE HUMAN BRAIN

With 100 billion cells and 500 trillion connections, this part of the brain allows us to solve difficult problems and navigate a very complex social world. It's also responsible for imagination, culture and the ability to figure out what other people are thinking based on social cues.

THE MOUSE BRAIN

An extra layer of brain provides more memory and a wider range of emotions. That allows mammals to do things like learn from their experiences and anticipate danger, rather than merely reacting to it,

THE LIZARD BRAIN

This ancient brain is all about survival. When danger appears, it decides whether to fight or flee.

Stephanie d'Otreppe, Jon Hamilton/NPR

HYPOTHALAMUS

Sleep Center Circadian Rhythms Hormone Release

AMYGDALA

Alarm System Decoding Emotions Processing Memories

HIPPOCAMPUS

Formation & Recall Memories NOT Storage Orientation / Environment

THE STRUCTURES IN THE BRAIN





MOVEMENT & THE BRAIN

NEUROGENERATION & NEUROPLASTICITY



NEUROPLASTICITY

STRENGTHENING OF NEURONS THROUGH ESTABLISHING NEW CONNECTIONS



ACTIVITY = MEMORY

Rin

0

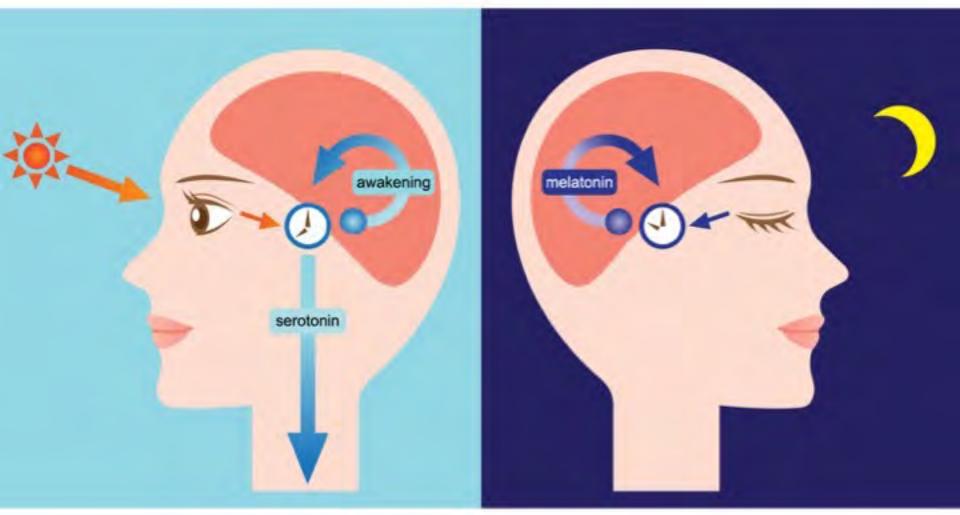
LITTLE



TIME & THE BRAIN CHRONOBIOLOGY & CIRCADIAN RHYTHM

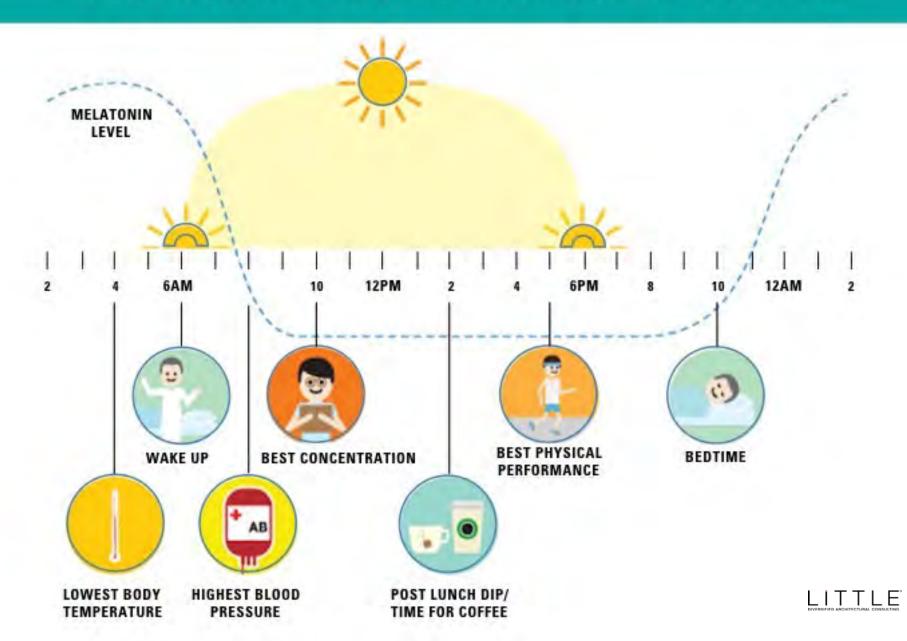


MELANOPIC LIGHT & CIRCADIAN RHYTHM





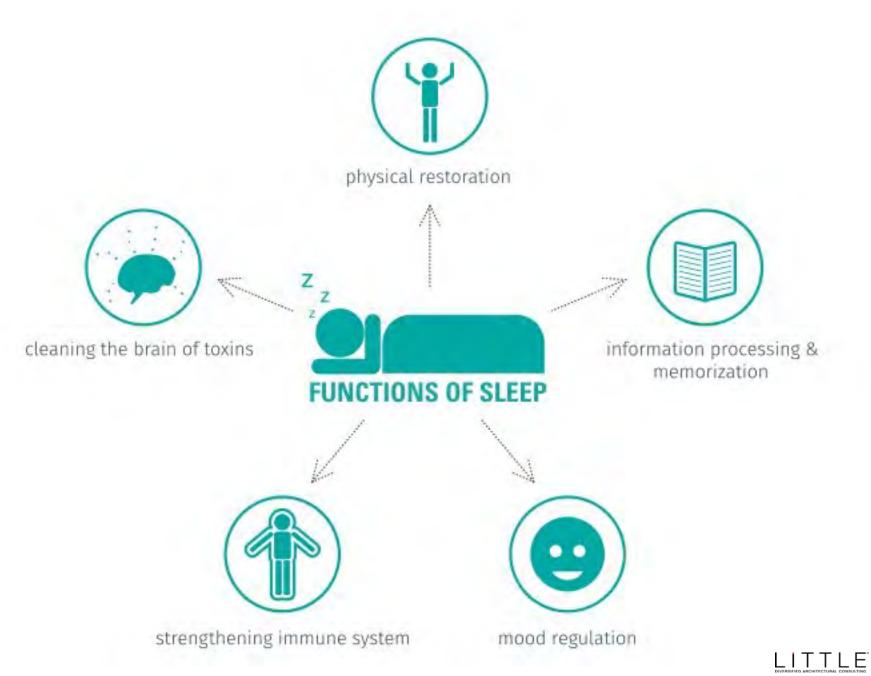
MELANOPIC LIGHT & CIRCADIAN RHYTHM





SLEEP & THE BRAIN





A Rechtschaffen et al, 1983 / E Weitzman et al, 1968

Zzz

SHORT TERM MEMORIES BECOME LONG TERM MEMORIES THROUGH SLEEP







NATURE & THE BRAIN BIOPHILIC DESIGN



MIND-BODY CONNECTION

ATTENTION RESTORATION THEORY



ATTENTION RESTORATION THEORY

FLOW STATES



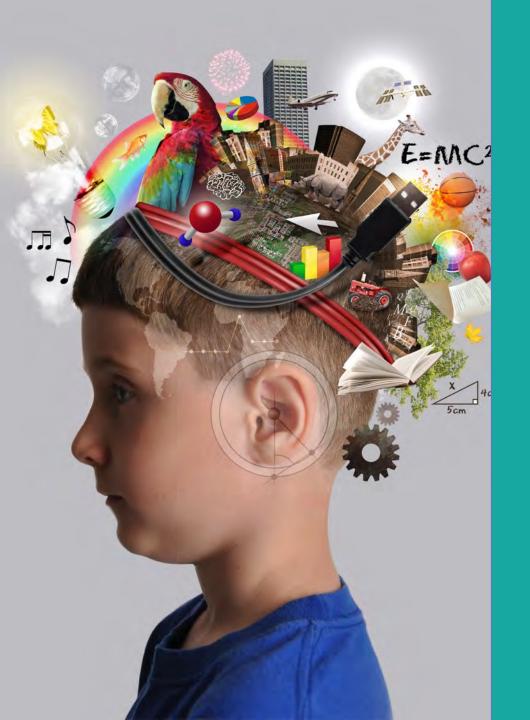




DIRECT ATTENTION

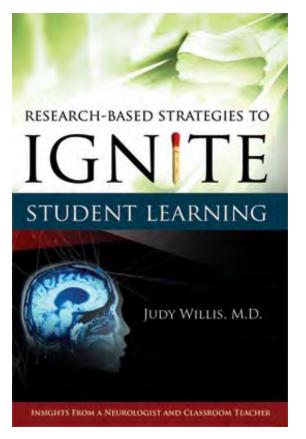
DIRECT ATTENTION FATIGUE ATTENTION RESTORATION

DIVERSIFIED ARCHITECTURAL CONSULTING

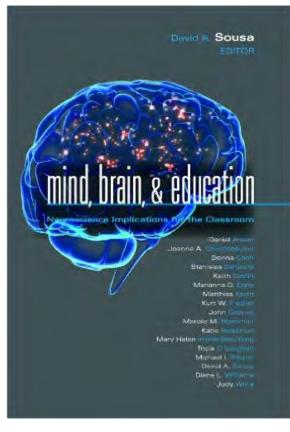


THE LEARNING BRAIN



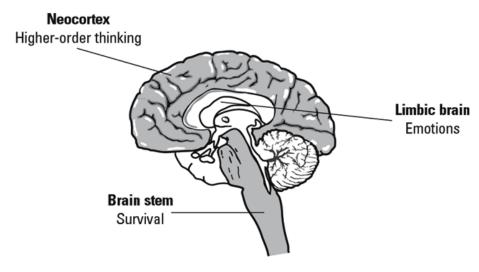


THE SURPRISING TRUTH ABOUT WHERE) AND WHY IT HAPPENS BENEDICT CAREY "THIS BOOK IS A REVELATION" - MARY ROACH





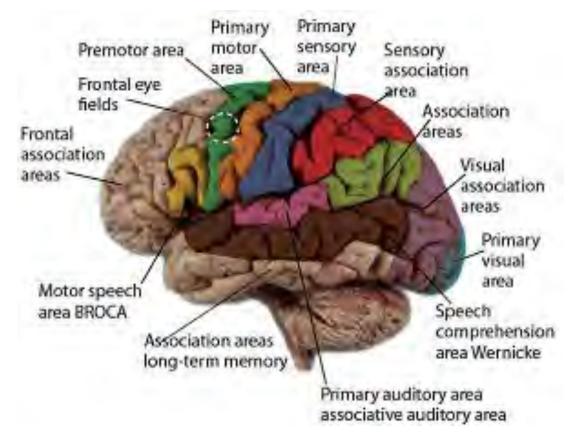
TO LEARN WE NEED TO MOVE STUDENTS FROM THINKING IN THE NEOCORTEX TO THE LIMBIC SYSTEM BECAUSE IT HELPS STUDENTS TO LEARN WHEN THEY HAVE A STRONG EMOTIONAL CONNECTION.





PROCESS OF MEMORIZATION

The somatosensory Cortex Areas - each individual sense (hearing, smelling, tactile, visual, movement) receives input which is then classified or identified by comparing it to previously stored data.



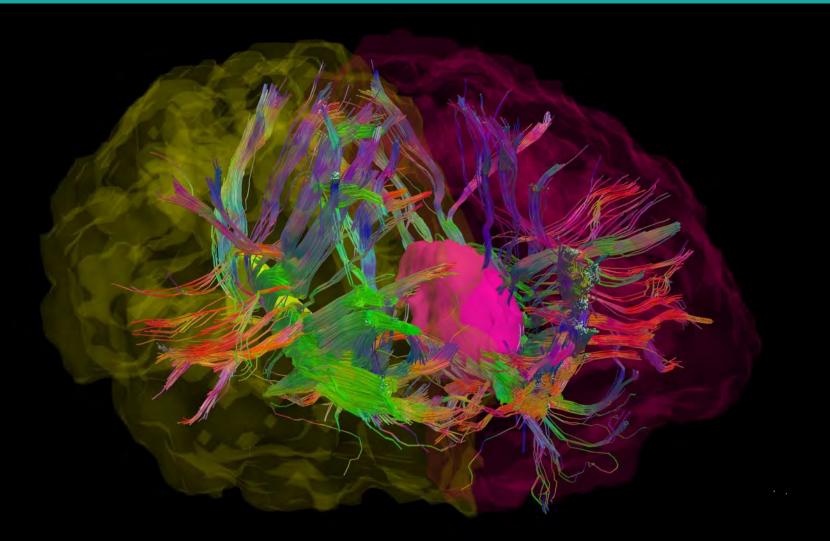
| | | | | | |-

Brain research discovery suggests that stimulating the growth of more dendrites and synaptic connections is one of the best things teachers can learn to do for the brains of their students.



"IN THE CLASSROOM, **THE MORE WAYS THE MATERIAL TO BE LEARNED** IS INTRODUCED TO THE BRAIN AND REVIEWED, THE MORE DENDRITE PATHWAYS OF ACCESS WILL BE CREATED"

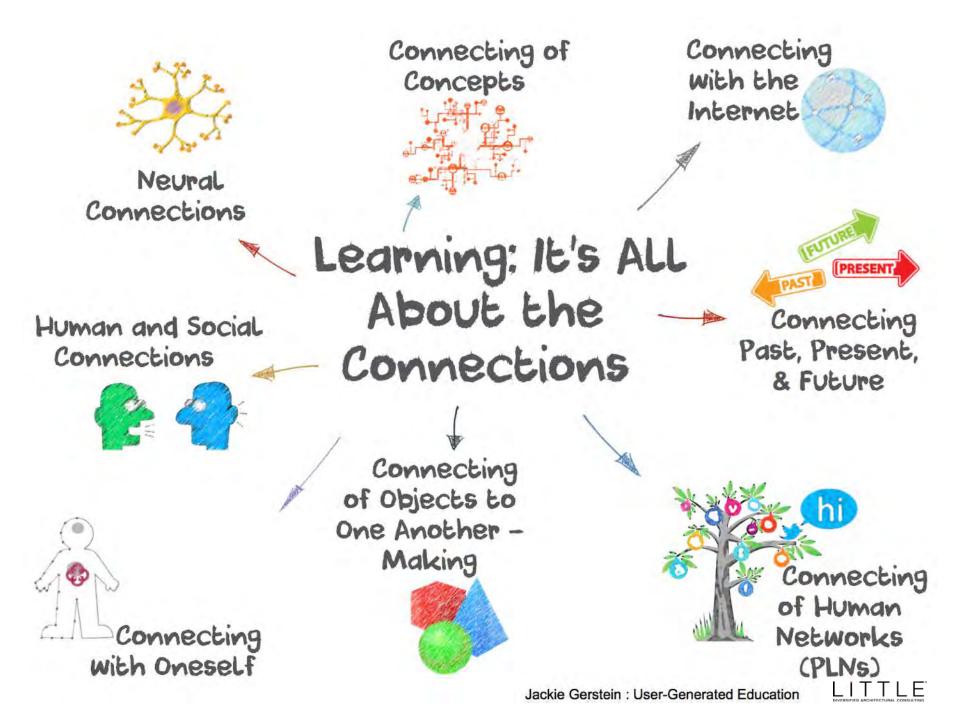
- JUDY WILLIS, IGNITE LEARNING (4)



"THE CROSS REFERENCING OF DATA STRENGTHENS THE DATA INTO SOMETHING WE'VE LEARNED RATHER THAN JUST MEMORIZED"

- JUDY WILLIS, IGNITE LEARNING (4)





Law

Geography

ychology

Physics

WELLNESS & LEARNING

Linguistics

EFFECTIVE & OPTIMAL LEARNING

Mathematics

Poetry



Art History

hemistry

POLL:

When you think about Wellness in schools, WHAT COMES TO MIND?



POLL: True or False: MORE MOVEMENT IN THE CLASSROOM **CREATES A MORE** DISRUPTIVE ENVIRONMENT.



POLL: True or False: **VIEWS OF THE OUTDOORS CREATE A DISTRACTION FOR** MANY STUDENTS.





TREND COMMUNITY

COMMUNITY IS IMPORTANT TO THE HEALTH AND WELL BEING OF ALL HUMANS. THE WELL BUILDING STANDARD FOCUSES ON CREATING INTERIOR AND EXTERIOR ENVIRONMENTS THAT ARE HEALTHY PLACES FOR PEOPLE TO GATHER.



TREND: COMMUNITY WE WORK TOGETHER



TREND: COMMUNITY WE HANG OUT





TREND NATURAL VIEWS

STUDIES HAVE SHOWED THAT HUMANS ARE CALMED BY VIEWS OF NATURE. IT IS VESTIGE OF OUR EVOLUTIONARY MEMORY. KEEPING THE WINDOW LINE OPEN TO OUTSIDE VIEWS REDUCES STRESS, IMPROVES HEART RATE AND HELPS PEOPLE RECHARGE THEIR ENERGY.



TREND: NATURAL VIEWS





TREND SPATIAL VARIETY

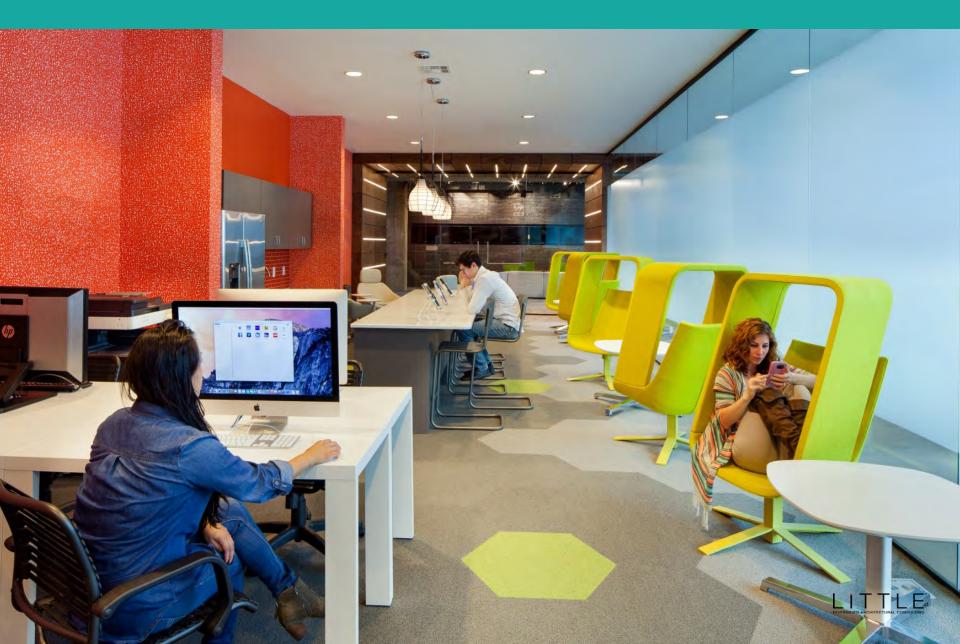
THE NOVELTY NEURON IN OUR BRAIN IS CONSTANTLY LOOKING FOR SOMETHING TO DO. PROVIDING SPACES THAT SUIT A VARIETY OF NEEDS – BASED ON THE ACTIVITY AND PROCESSES TAKING PLACE IN THE SPACE – HELPS TO KEEP US ENGAGED, AND HOLD OUR ATTENTION.



TREND: SPATIAL VARIETY



TREND: SPATIAL VARIETY





TREND INTUITIVE DESIGN

NOT UNDERSTANDING HOW WE'RE SUPPOSED TO USE SPACE RESULTS IN ADDED STRESS ON PEOPLE. CARE MUST BE TAKEN TO SEND VISUAL CUES THROUGH THE USE OF ARCHITECTURAL ELEMENTS, AND OTHER WAYFINDING MEANS, WHICH HELPS TELEGRAPH WHAT TO DO, AND WHERE TO GO IN SPACE.

TREND: INTUITIVE DESIGN



TREND: INTUITIVE DESIGN



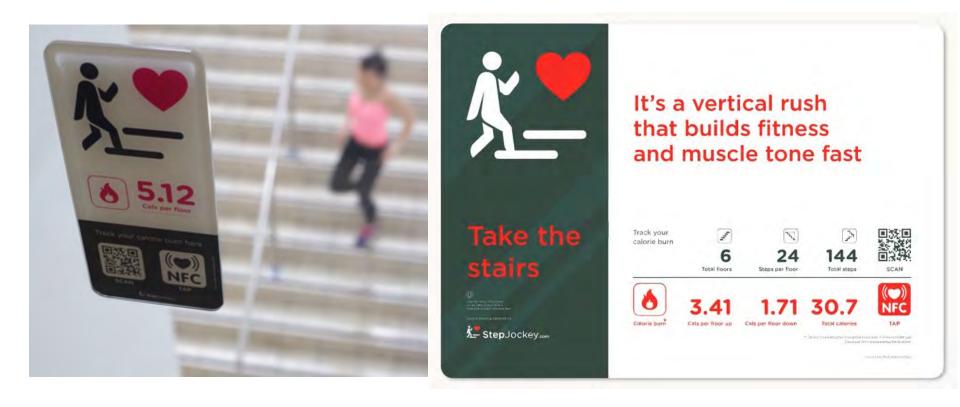


TREND ACTIVE DESIGN

USING FURNITURE THAT HELPS CHILDREN BE MORE ACTIVE ALLOWS A CHANGE IN POSTURE RESULTING IN GREATER ATTENTIVENESS, AND FEWER MUSCULOSKELETAL ISSUES. IT ALSO HELPS PREVENT THE CREATION OF A SEDENTARY BEHAVIOR PROFILE, BREAKING THE EFFECTS OF SITTING DISEASE.



MORE LIKELY TO TAKE STAIRS AFTER SEEING SIGNS



TREND: ACTIVE DESIGN



TREND: ACTIVE DESIGN

"Children who are more active show greater attention, have faster cognitive processing speed and perform better on standardized academic tests."

James F. Sallis, UC San Diego





TREND NOURISHMENT

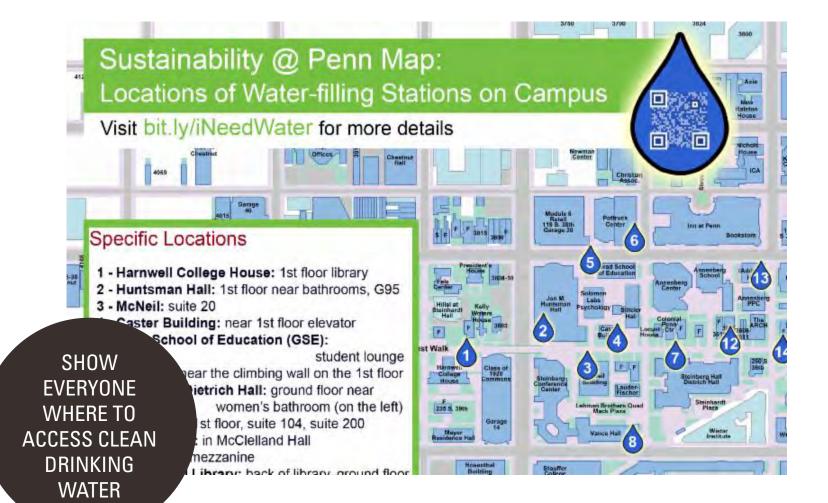
UNDERSTANDING THE ROLE OF NOURISHMENT ENCOURAGES BETTER EATING HABITS AND FOOD CULTURE, AND AN AWARENESS ABOUT WHAT FOODS ARE HEALTHY AND WHAT FOODS INCREASE ALLERGIES AND INFLAMMATION, LEADING TO SICKNESS AND DISEASE.



TREND: NOURISHMENT

TEACH CHILDREN WHERE THEIR FOOD COMES FROM

TREND: NOURISHMENT



The WELL Building Standard





CERTIFICATION LEVELS







SILVER 100% Preconditions + 20% Optimizations GOLD

100% Preconditions+ 40% Optimizations

PLATINUM 100% Preconditions + 80% Optimizations





Law

Geography

ychology

how should this knowledge IMPACT LEARNING SPACE?

Biology

Mathematics

Poetry



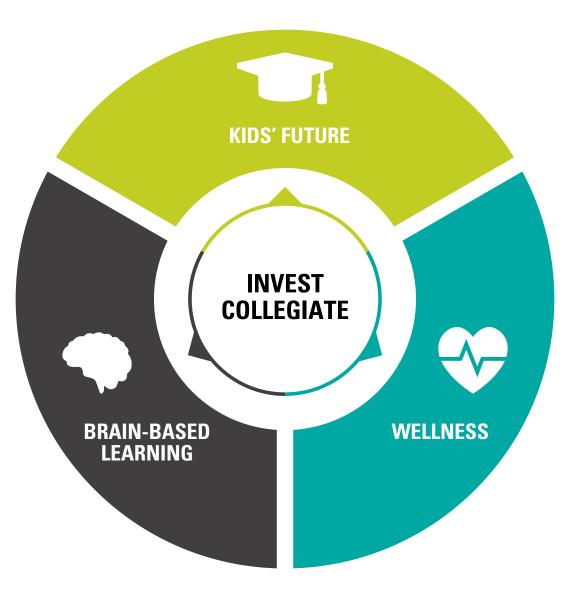
hemistry

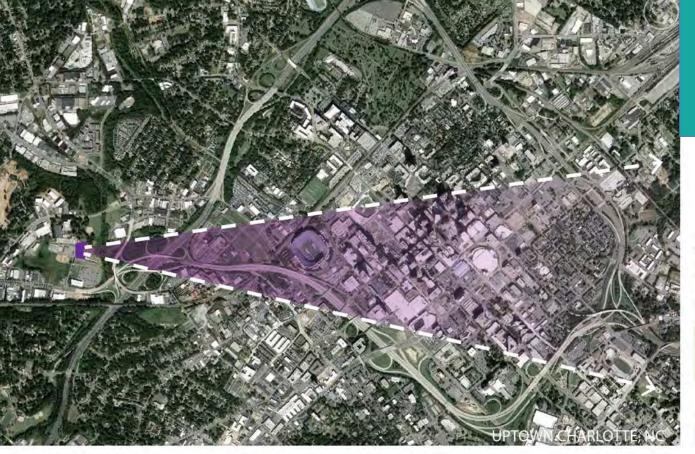
Art History

CASE STUDY: INVEST COLLEGIATE CHARTER SCHOOL

Bringing it all together







INVEST COLLEGIATE CHARTER SCHOOL: TRANSFORM









RELEVANCE : EMOTIONAL LEARNING



SCHOOL DATA:

TYPE OF PROJECT DELIVERY: DEVELOPER-FUNDED, CHARTER SCHOOL LEASE BACK; CM-AT-RISK.

SITE AREA: 8.94 ACRES

0.94 AUNES

BUILDING AREA GROSS SF: 80,000 SF (LEVEL 1: 28,200 SF; LEVEL 2: 27,000 SF; LEVEL 3: 24,800 SF)

BUILDING AREA NET SF: 50,400 SF (37% GROSSING FACTOR)

OF STUDENTS: 571 (K-8). (CAPACITY 650)

COST: \$11.265 MILLION (148/SF) (SITE: \$1.4; BLDG:\$9.6; FURNITURE \$.235; TECH: \$.030)



CONNECT







TREND: COMMUNITY

COMMUNITY AND FEELING LOVED LESSENS STRESS, HELPS PEOPLE FEEL VALUED AND FIND MEANING

TREND: COMMUNITY



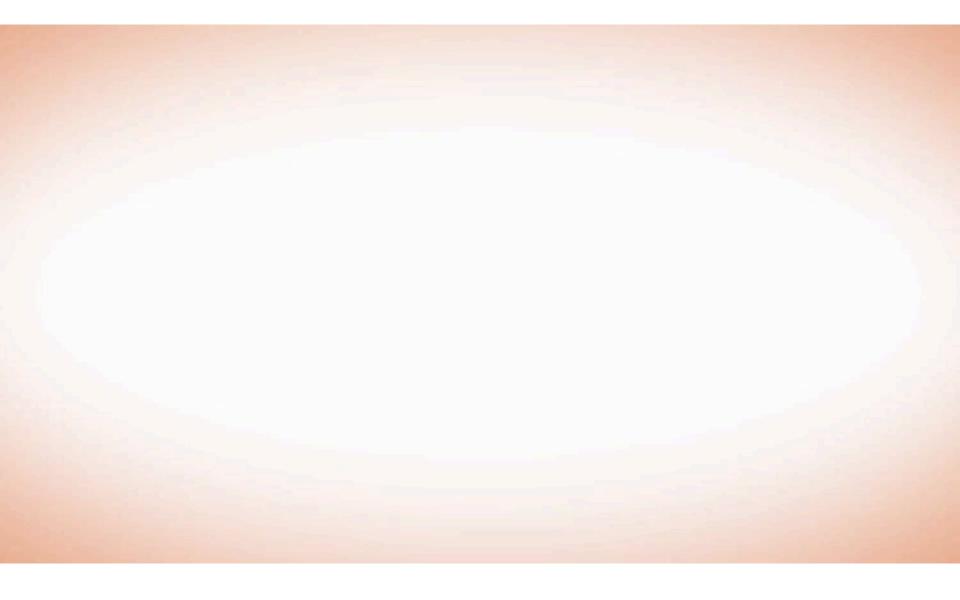
TREND: COMMUNITY

"CHANGES AND VARIATIONS IN THE ENVIRONMENT INTRIGUE CHILDREN AND CAUSE THEM TO VISUALLY ATTEND TO THE UNUSUAL"



Rebecca Isbell, Ed.D.- An Environment that Positively Impacts Young Children (10)

CULTURE @ INVEST COLLEGIATE





"OUR BRAINS ARE STRUCTURED TO REMEMBER NOVEL EVENTS THAT ARE UNEXPECTED. BRAINS ARE PARTICULARLY STIMULATED WHEN THEY PREDICT ONE EFFECT AND EXPERIENCE ANOTHER"

 $\Box T T$

Judy Willis, Ignite learning (11)

TREND: SPATIAL VARIETY



Variety allows the novelty neuron in the brain to "chew" on something to keep it engaged and active



classROOM



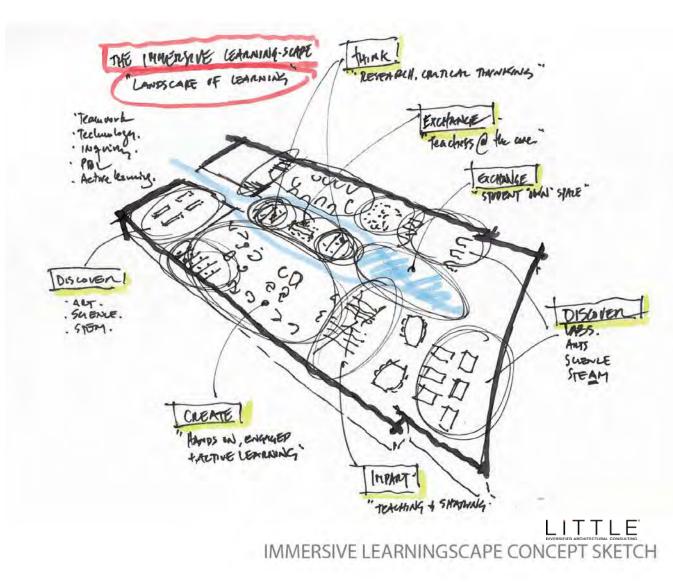


typologies of methodologies of **TEACHING** LEARNING VS.

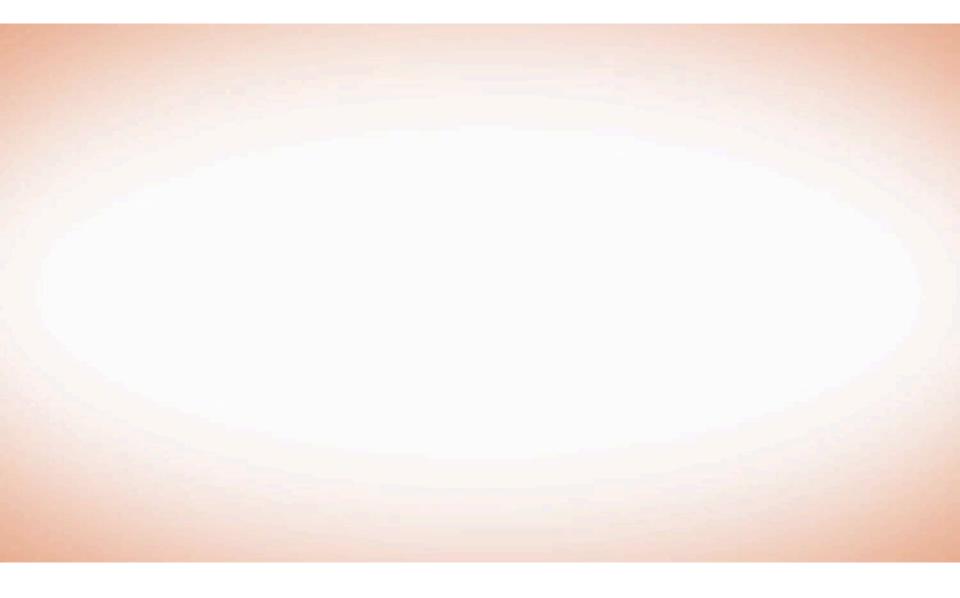


THE IMMERSIVE LEARNINGSCAPE SPATIAL VARIETY

- 1. Support teaching & learning of 21st Century skills
- 2. Support Multiple modalities of Learning,
- 3. Incorporate technology
- Provide a landscape of various learning spaces to support Personalization & Differentiation



NEXT GENERATION LEARNING @ INVEST COLLEGIATE





typologies of **LEARNING - Space**



typologies of LEARNINGspace



THINK



CREATE



DISCOVER

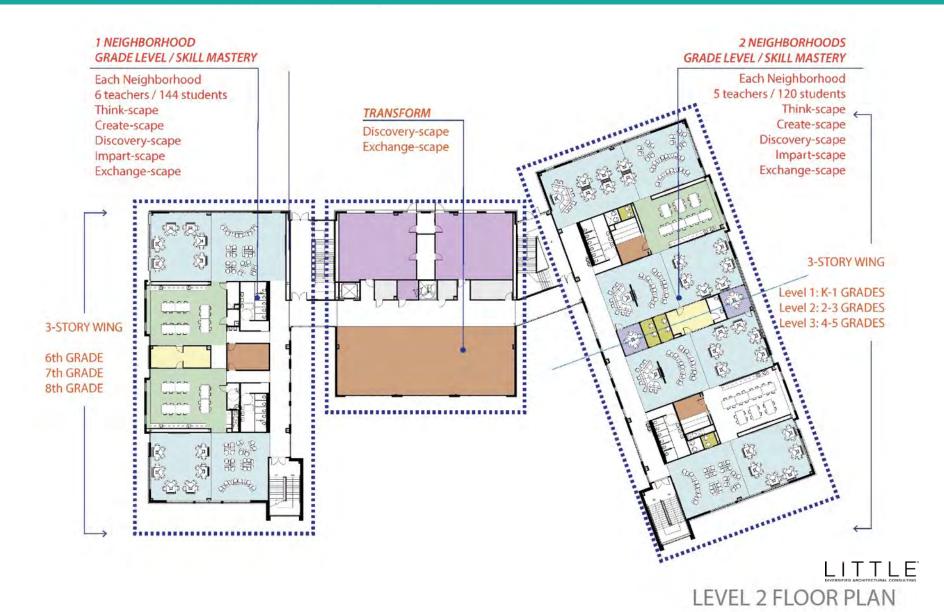


IMPART



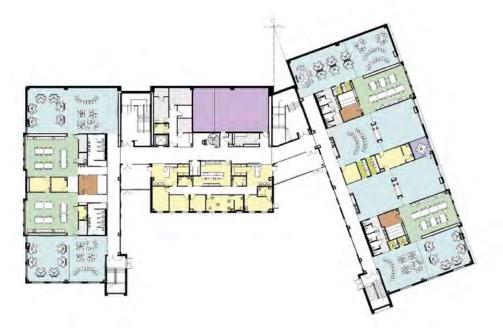
EXCHANGE LITTLE

THE IMMERSIVE LEARNINGSCAPE



Department Legend

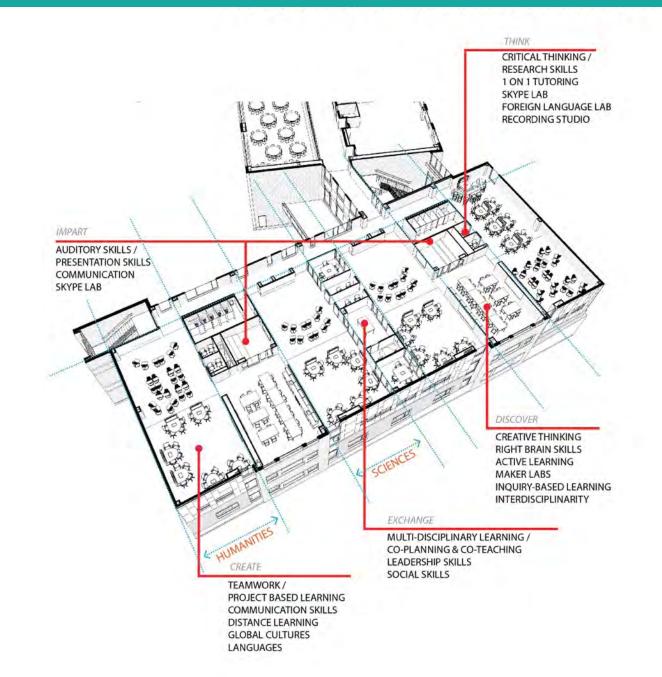
CREATE CREATE ART DISCOVER EXCHANGE IMPART TEACHER DISCOVERY THINK UTILITY



LEVEL 1 FLOOR PLAN



TYPOLOGIES OF LEARNING AT INVEST



LITTLE

typologies of LEARNINGspace

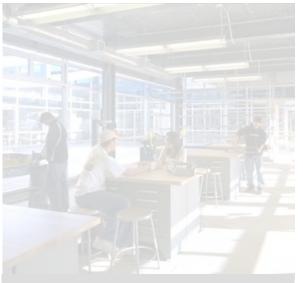


THINK

IMPART



CREATE



DISCOVER



EXCHANGE LITTLE

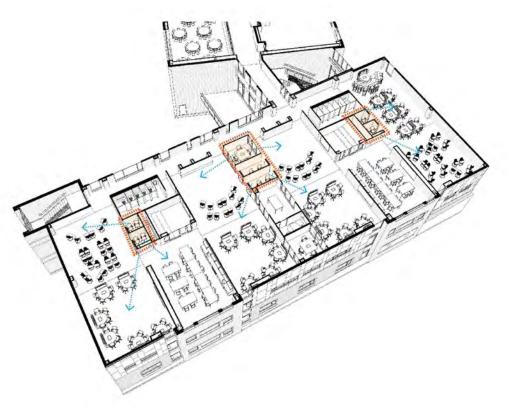
TYPOLOGIES OF LEARNING: THINK

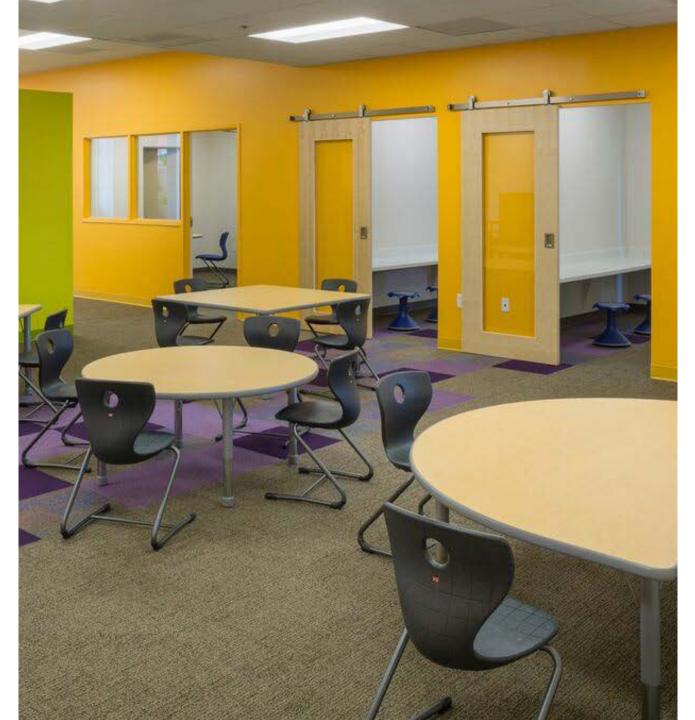
An independent learner is able to make personal choices and carry out an appropriate plan of action.



CRITICAL THINKING / RESEARCH SKILLS 1 ON 1 TUTORING SKYPE LAB FOREIGN LANGUAGE LAB RECORDING STUDIO



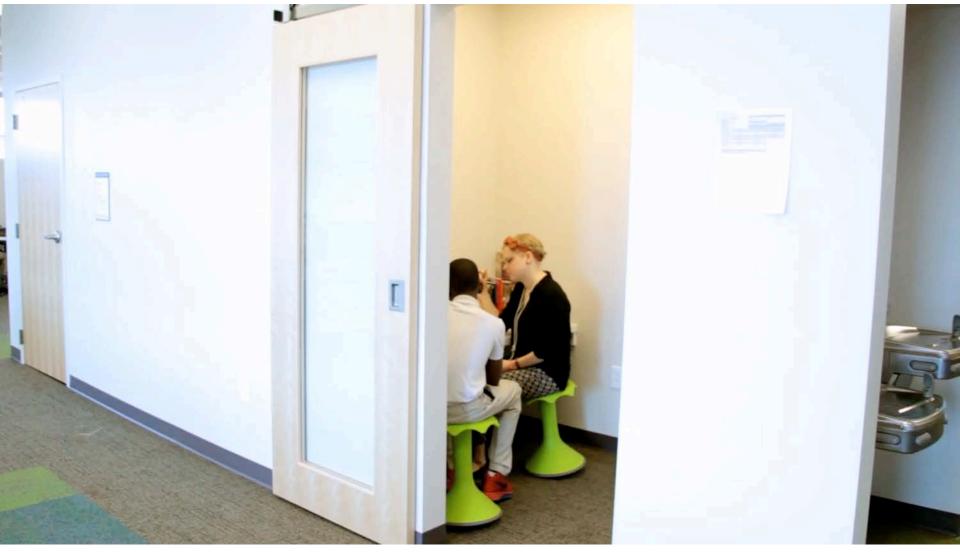




RESTORATIVE SPACE: INDEPENDENT LEARNING



An effective environment is designed so even the youngest of children can become independent.





Source: http://www.earlychildhoodnews.com/earlychildhood/article_view.aspx?ArticleID=334

typologies of LEARNINGspace

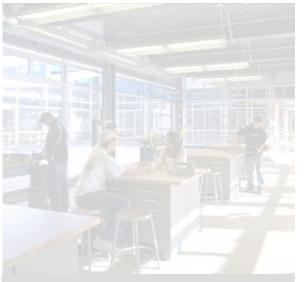


THINK

IMPART



CREATE



DISCOVER



EXCHANGE LITTLE

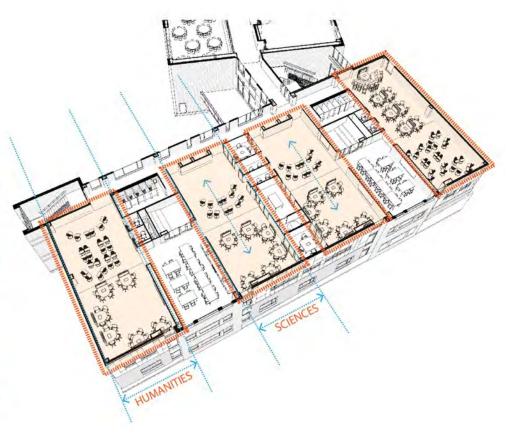
TYPOLOGIES OF LEARNING: CREATE



COLLABORATIVE TEACHING TEAMWORK PROJECT BASED LEARNING COMMUNICATION SKILLS DISTANCE LEARNING GLOBAL CULTURES LANGUAGES



"I love this environment because I can move my students from space to space, we don't have to stay in one area, so depending on what we're working on we can work has a whole group, work individually or send them to areas to work as small groups. We can also use the Impart room for presentations, show a video or ask questions and talk. I love the fact that I can move the students through each of the learning environments." Julie Schiel (First Grade)





CROSS REFERENCING DATA : LEARNING VS MEMORIZATION







INVEST COLLEGIATE TRANSFORM Champions Investment Fund

PROJECT & PROBLEM-BASED LEARNING : INTERCONNECTED LEARNING :



Project-based learning (PBL) provides a powerful opportunity for students to reflect on who they want to be and what decisions they want to make.

Source: Edutopia "3 PBL Practices to Empower Students"



PROJECT BASED LEARNING @ INVEST



Some of the experiences that are particularly powerful for integrated learning and building connections are learning centers, thematic episodes, and projects





COLLABORATION @ INVEST COLLEGIATE





typologies of LEARNINGspace

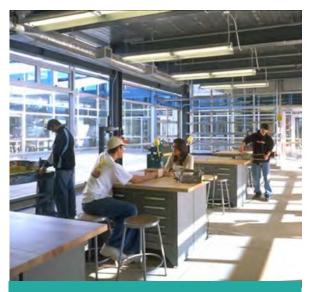


THINK

IMPART



CREATE



DISCOVER



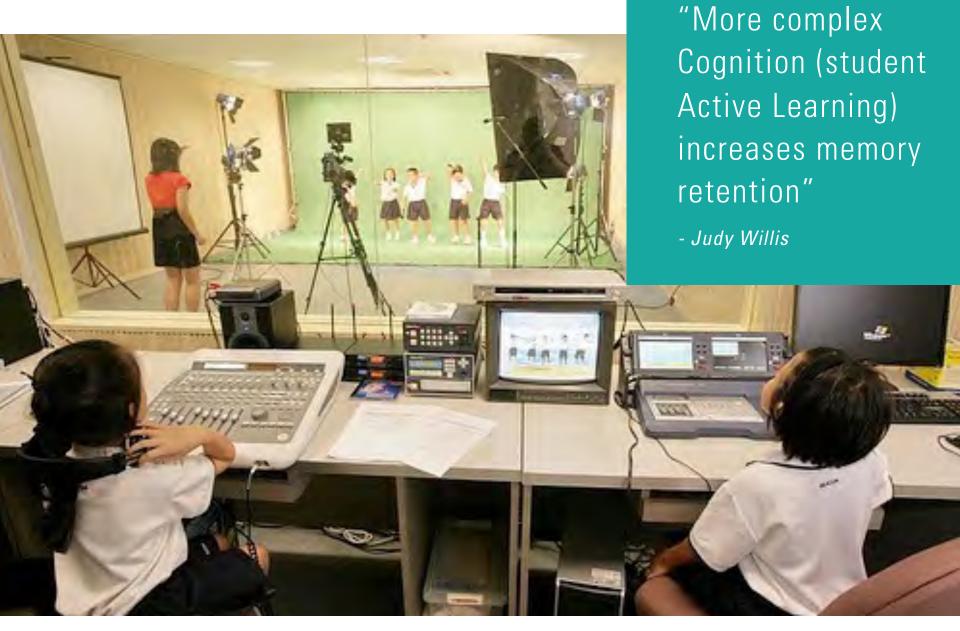
EXCHANGE LITTLE

DISCOVER-SCAPE A Space for Hands On Investigative Learning



ACTIVE LEARNING : SOMATOSENSORY LEARNING





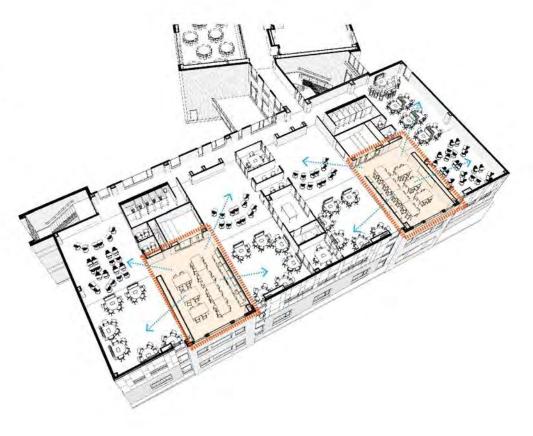


TYPOLOGIES OF LEARNING: **DISCOVER**



CREATIVE THINKING RIGHT BRAIN SKILLS ACTIVE LEARNING MAKER LABS INQUIRY-BASED LEARNING INTERDISCIPLINARITY









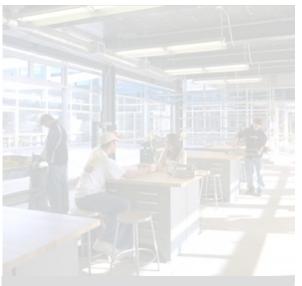
typologies of LEARNINGspace



THINK



CREATE



DISCOVER



IMPART



EXCHANGE LITTLE

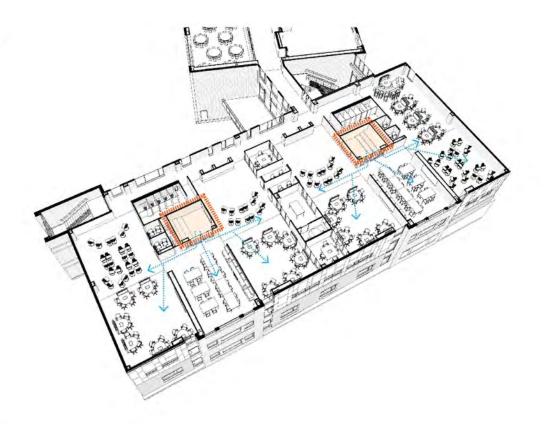
TYPOLOGIES OF LEARNING: IMPART



AUDITORY SKILLS / PRESENTATION SKILLS COMMUNICATION SKYPE LAB



"We can be inclusive, be in small groups, be in a large group. We can start off in one place and move to the next. I can close off a room to read a story, then take that story into the Discovery room and make that story come to life, being as loud and as involved with the kids as needed. I can teach simultaneously with other teachers and give them the opportunities to learn from other teachers as well." Jacqueline Hayes (Kindergarten)









"Smaller spaces help to focus attention for higher performance on analytical tasks."

> John Kounios & Mark Beeman



typologies of LEARNINGspace

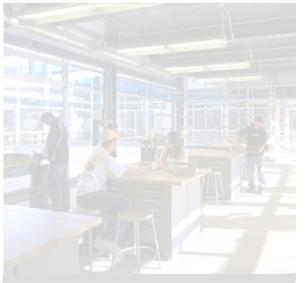


THINK

IMPART



CREATE



DISCOVER



EXCHANGE LITTLE

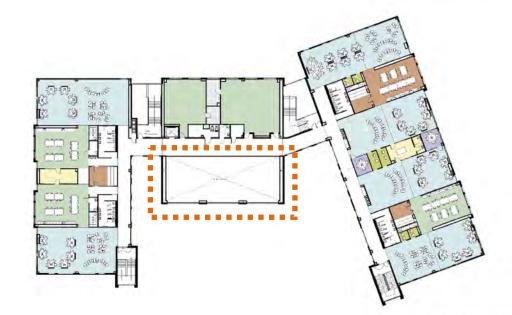
TYPOLOGIES OF LEARNING: EXCHANGE



LITTLE

"I now have more spaces that I ever thought possible to teach in. I can simultaneously teach a lecture, while right around the corner having a lab class taking place. I can also have my advanced students in the "think" rooms, so I can essentially monitor and help students in three places at one time." Neil Leonard (6th/7th Middle School Science)

TYPOLOGIES OF LEARNING: EXCHANGE







TREND: ACTIVE DESIGN



TREND: ACTIVE DESIGN



In the classroom, the more ways the material to be learned is introduced to the brain and reviewed, the more dendrite pathways of access will be created. "WE KNOW EXERCISE FUELS THE BRAIN WITH OXYGEN, BUT IT ALSO FEEDS IT **NEUROTROPINS** (HIGH-NUTRIENT CHEMICAL "PACKAGES") TO INCREASE THE NUMBER OF CONNECTIONS BETWEEN NEURONS."



"Simple biology supports an obvious link between movement and learning. Oxygen is essential for brain function, and enhanced blood flow increases the amount of oxygen transported to the brain. Physical activity is a reliable way to increase blood flow, and hence oxygen, to the brain."





Source: <u>http://www.ascd.org/</u> publications/books/104013/chapters/ Movement-and-Learning.aspx

WELLBEING @ INVEST COLLEGIATE

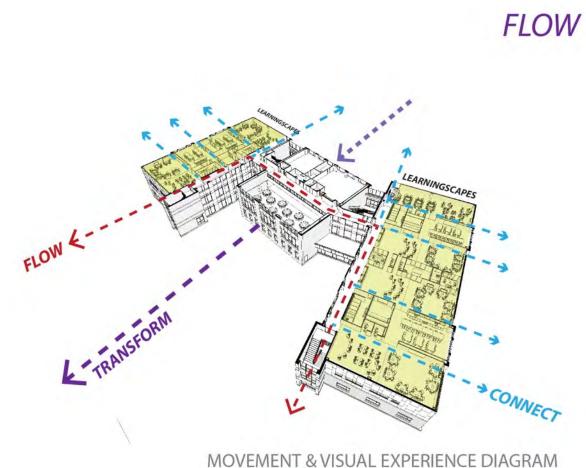




TREND: INTUITIVE DESIGN

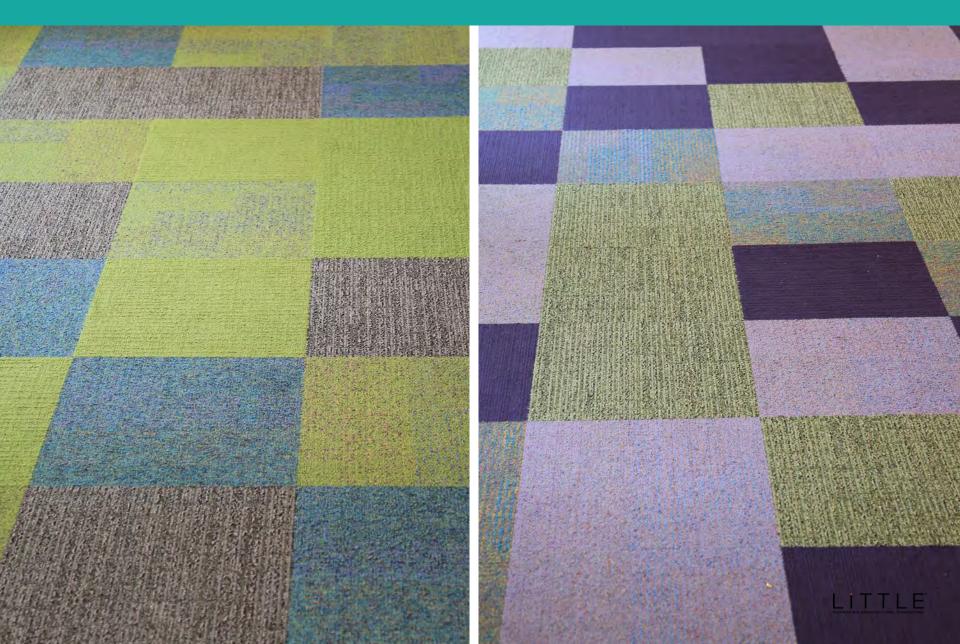


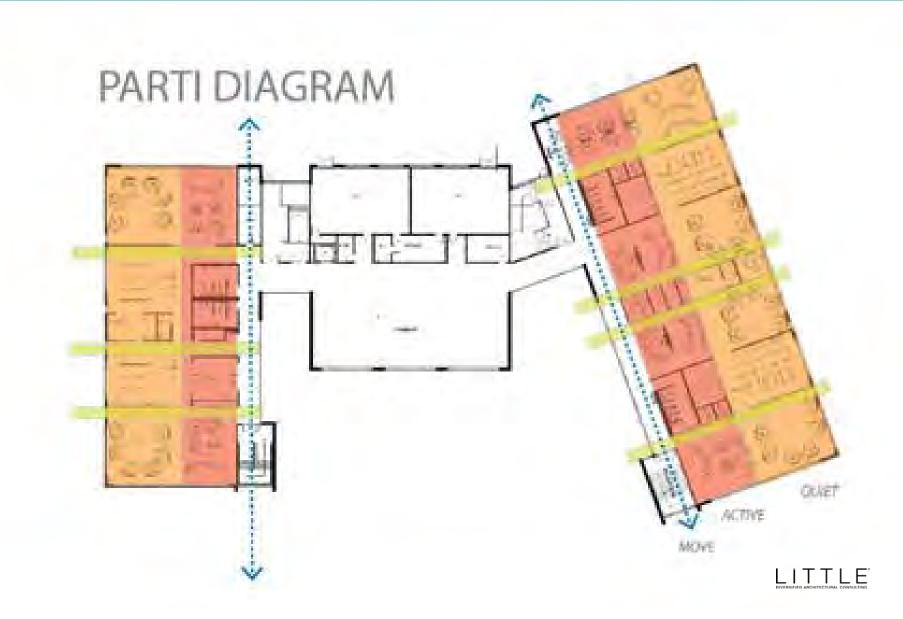






TREND: INTUITIVE DESIGN







PARTI DIAGRAM







POLL:

Outside of curriculum, in your opinion which of the following has the biggest

IMPACT ON STUDENT SUCCESS?







Law

Geography

ychology

Physics.

THANK YOU!

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Biology

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