



Understand characteristics of "restorative experience" and benefits of biophilic design strategies pertaining to mental, physical health, wellbeing, and cognitive student performance.

Focus on wellness and educating the whole person.

Case study presentations and postoccupancy video and interviews.

Sharing educator perspective on how Generation Alpha students are unique.

WHO WE ARE | HORD COPLAN MACHT

NATIONALLY RECOGNIZED LEADERS IN EDUCATIONAL DESIGN

Integrated design practice

Architecture
Landscape Architecture
Planning
Interior Design
Graphic Design
Sustainable Design

K12 expertise

45 - years of K12 experience

105,000 + students educated annually in HCM-designed schools

45+
dedicated studio members









ADELE WILLSON

K12 Studio Lead / Principal | Hord Coplan Macht

AIA, LEED AP, ALEP





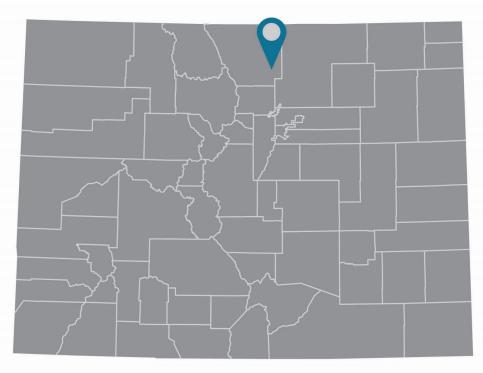


KARA AYLESWORTH

Principal | Hord Coplan Macht

AIA, LEED AP

WHO WE ARE | BAMFORD ELEMENTARY



(Map of Colorado)

Together we inspire and empower the minds of today to make a difference in the world tomorrow!

Facts

77,000SF

GRADES

PK-5

DESIGNED FOR

700 STUDENTS

LOVELAND, COLORADO









ALISSA PODUSKA

Principal | Bamford Elementary



AGENDA

- Understand Generation Alpha qualities
- Focus on wellness
- 03 Educator perspective on how Generation Alpha students
- Case Study
- Q&A

2.8

Million born globally each week 65%

will work in jobs that don't exist today



Half are expected to earn a university degree

66%

prefer to buy from companies that make a positive difference in the world



GENERATION ALPHA

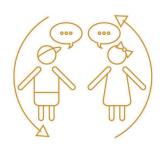
DIGITAL NATIVES BORN AFTER 2010



Technology ingrained as part of their childhoods



Will spend more of their lives online & less in person interaction w/ peers



They will require more intentional efforts to forge person-to-person interaction



Digital experts at a young age & are often advanced learners



EREATIVE ENTREPRENEURS

Gen Alpha look set to be the 'architects' of a new found tech-enabled creativity.



86%

Enjoy making things.



20%

Already making money from hobbies/talents.



47%

Enjoy tinkering with electronics.



66%

Enjoy creating their own games and/or worlds.



55%

Enjoy creative video making.

GAMIFICATION

DIGITAL WORK

KINESTHETIC

PERSONALIZED

APPLICABLE











INTERACTIVE + ENGAGING

TECH SAVVY + INNOVATIVE

HANDS ON + EXPERIENTIAL

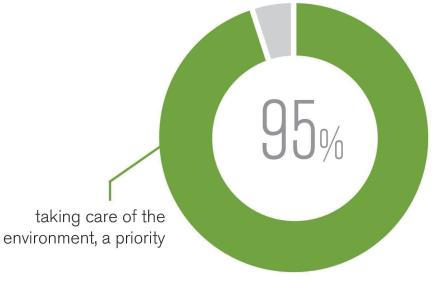
FLEXIBLE + TARGETED

MEANINGFUL + RELEVANT

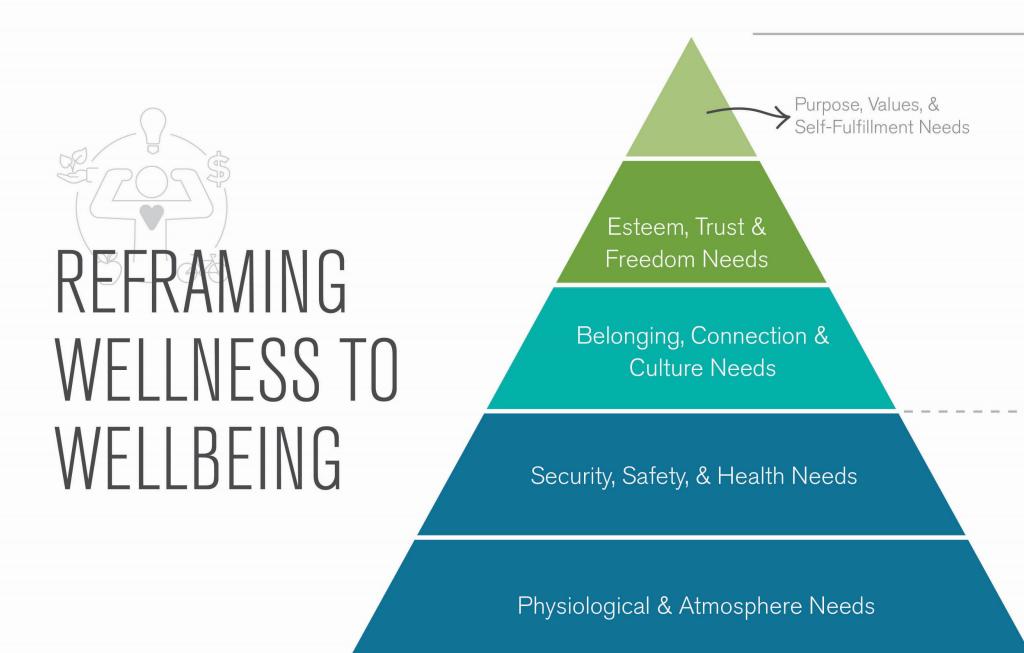




SOCIALLY CONSCIOUS GENERATION



97% of this generation places a large emphasis on making sure everyone has enough food to eat













mental health resources and overall wellness support will be a key factor as these children age





Need flexible learning environments that can adapt to their rapid progression and a variety of learning styles





Mark the end of the age-old practice of "QUIET!" in the classroom and library, balanced with intentional spaces



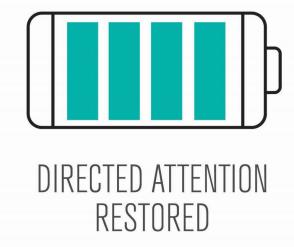




ATTENTION RESTORATION THEORY









Natural environments help in reducing constant demands of directed attention.

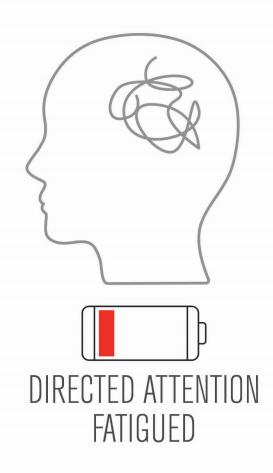
TOO MUCH STIMULI

background noise

stress

Extended periods of focused attention (tests)

probem solving



deadlines

Poor sleep

reading and writing

hormones



IMMERSION In Nature

What better way to experience nature than to be in nature



CONNECTIONS TO NATURE

When students can't be in nature, the next best thing is visual connections to nature



CONNECTIONS TO NATURAL ELEMENTS

When students don't have access to views out into nature, bringing natural elements inside



SIMULATED NATURAL ELEMENTS

When we can't bring natural elements indoors, the next best option is simulated nature & biomorphic patterns

VISUAL CONNECTION WITH NATURE

- Viewing greenery for just 40 seconds was associated with higher sustained attention.
- Exposure to green space led to 36% more stress reduction than views to an urban setting.

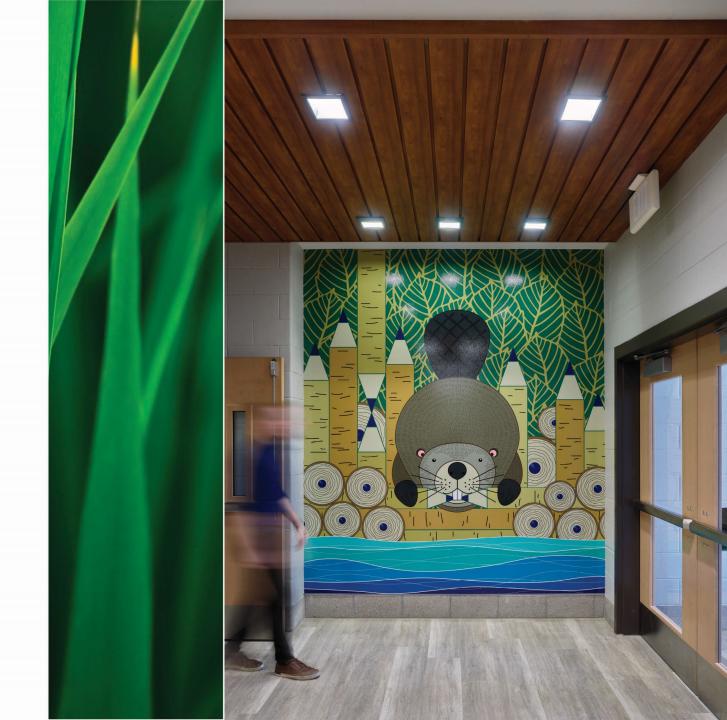




BIOMORPHIC FORMS

Exposure to green spaces (at home and at school) led to average working memory increase by 22.8%, superior working memory by 15.2%, and inattentiveness decreased by 18.9%





BENEFITS OF TIME IN NATURE

- Better concentration
- Attention capacity increases
- Self-discipline
- Impulse control
- Emotional resilience
- Behavioral regulation
- Self-esteem

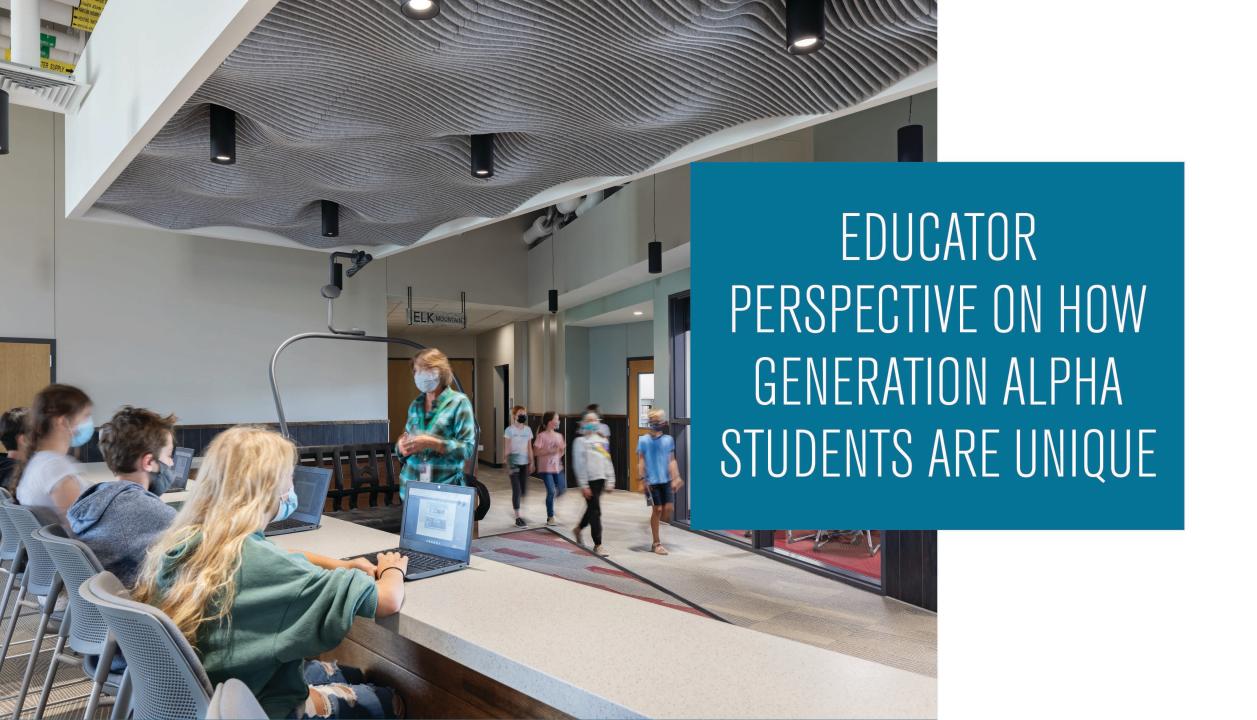






5 Ways That Biophilic Design Can Boost Social-Emotional Learning

- A nature-based color scheme helps students feel calm
- 2 Natural light boosts mood and performance
- A biophilic design featuring plants and water lowers stress levels and mental health risks
- 4 Natural shapes and textures promote kinder behavior
- Nature imagery and patterns improve attention and memory









Problem-Finders & Solution-Seekers



Social-Emotional Well-Being = Importanance to Academics



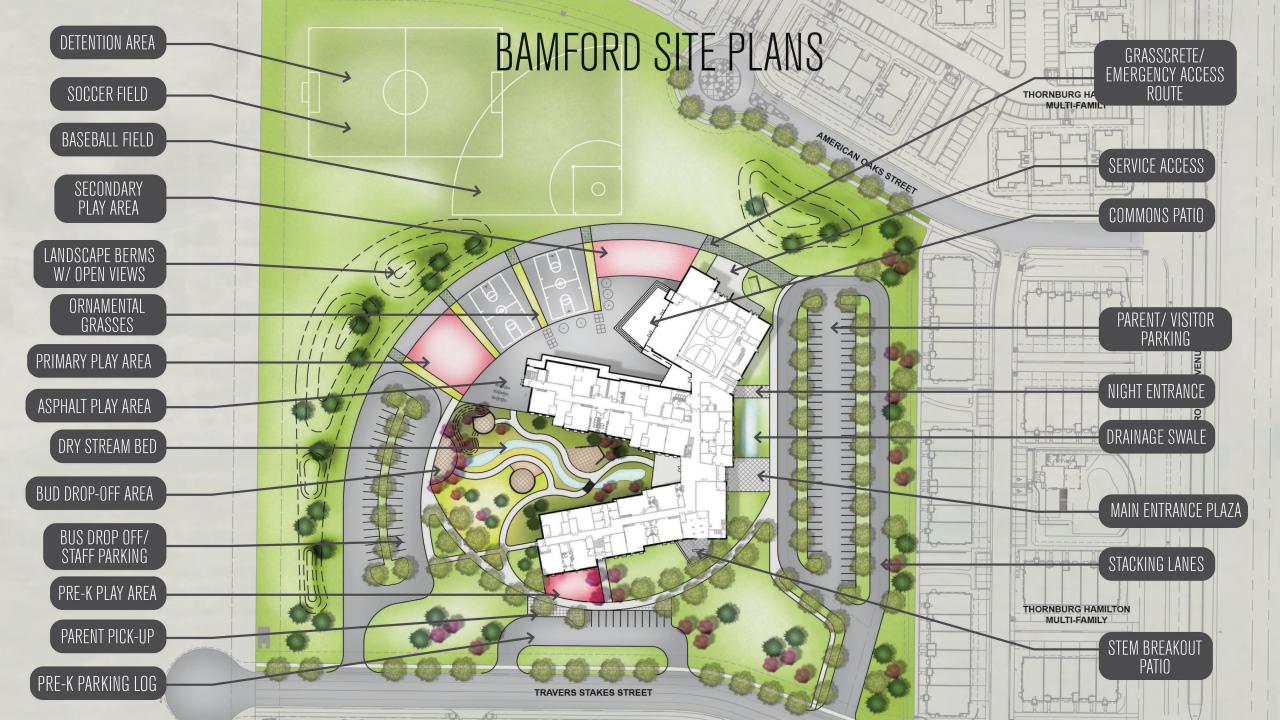
Educational Opportunities to Connect within the Community, Work-Force



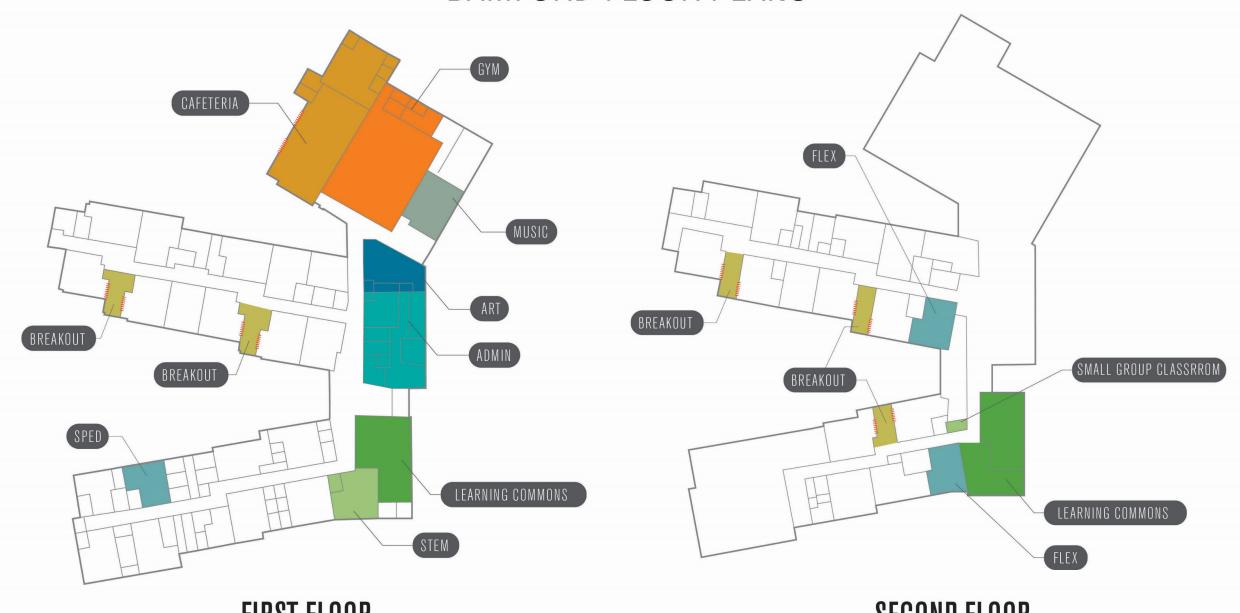
Philanthropy & Service can Impact At-Risk Kiddos
Changing their trajectory for the positive







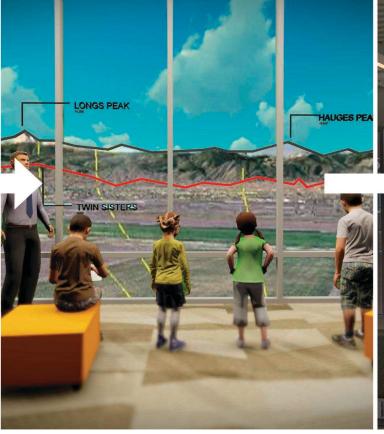
BAMFORD FLOOR PLANS



FIRST FLOOR

SECOND FLOOR







DESIGNING A COMMUNITY CENTERED ENVIRONMENT

01

Connections to mountain landscape

03

Connection to landmarks

- -Horsetooth Mountain
- -Devil's Backbone
- -Windsor Lake
- -Poudre River

02

Observation of mountains and education of natural landscape of site & beyond

04

Interior reflects the climate zones of mountains, lush at lower elevations, alpine at higher elevations











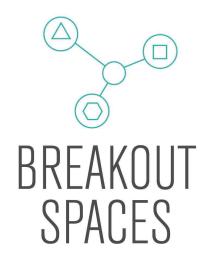


















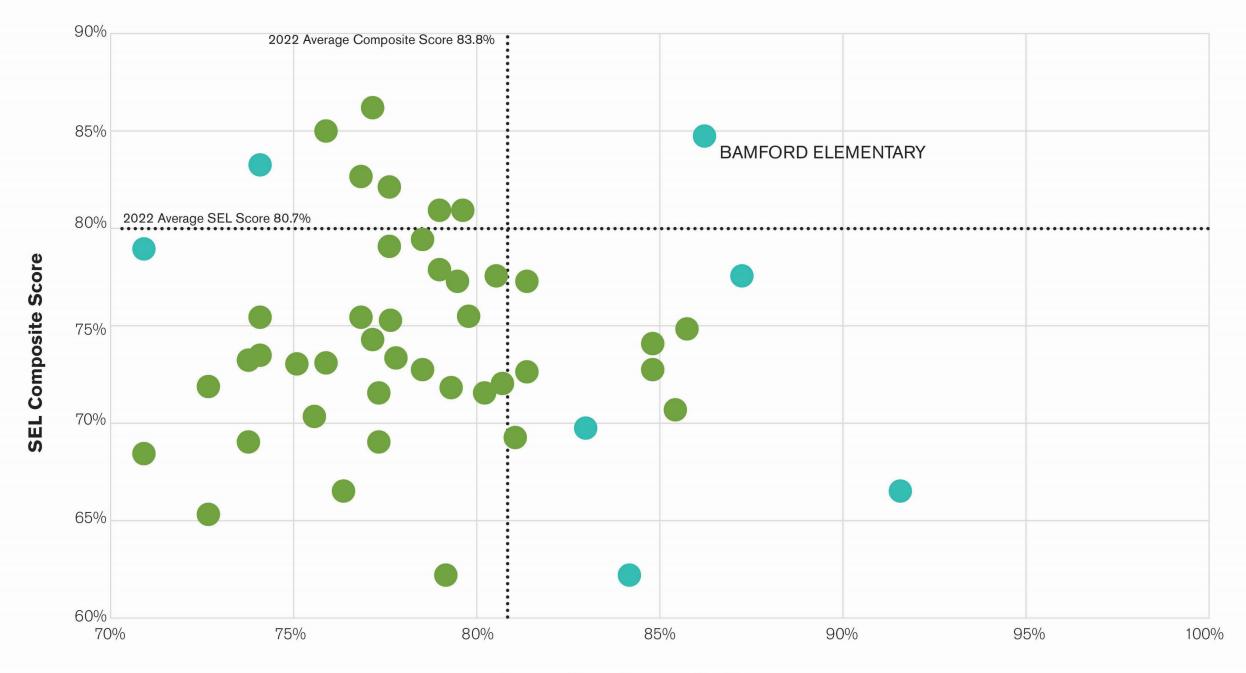












Connections Composite Score



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STATISTIC CITATIONS

"Mental Health of High School Students during the COVID-19 Pandemic"

"New Research Shows How Bad the Pandemic Has Been for Student Mental Health"

"2022 The State of Mental Health in America"

"Mental Health Impact of COVID19 among Children and College Students"

"Impacts of views to school landscapes on recovery from stress and mental fatigue"

"Green spaces and cognitive development in primary schoolchildren"

"40-second green roof views sustain attention: The role of micro-breaks in attention restoration"