



Waco Independent School District

Community Advisory Committee
(CAC) for the Waco ISD Facilities
Long-Range Master Plan
Meeting 2

01.25.2021



Start/Finish On-Time

- + Meetings begin within 5 mins of start time
- + Timekeepers will move us along
- + Use Chat for comments, questions



Participate/ Communicate

- + All ideas are important
- + Use Chat to share feedback or ideas
- + Please complete any homework



Help Limit Distractions

- + Mute during presentation
- + Use Chat to register questions
- + Use Raise Hand feature for your turn



Parking Lot

- + Capture, or “Park” ideas or questions here for later
- + Keeps track of items not related to current agenda or discussion



Honesty, Courtesy, Respect

- + Golden Rule: Do unto others...
- + Participate as you would in person
- + Listen to others and be engaged



Have Fun

- + Learn new information
- + Meet new people
- + Make an impact on your community!

Meeting Etiquette

Meeting Schedule:

1. ~~January 11~~
2. ~~January 25~~
3. February 8
4. March 1
5. March 22
6. April 12
7. May 3
8. May 24

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Meeting Schedule

Welcome
Waco ISD Facilities Conditions Assessment
District Educational Vision
21st Century Learning Environments
Wrap-Up & Next Steps

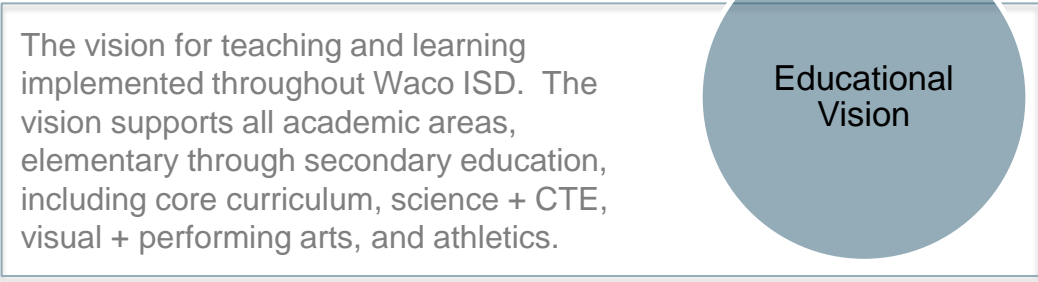
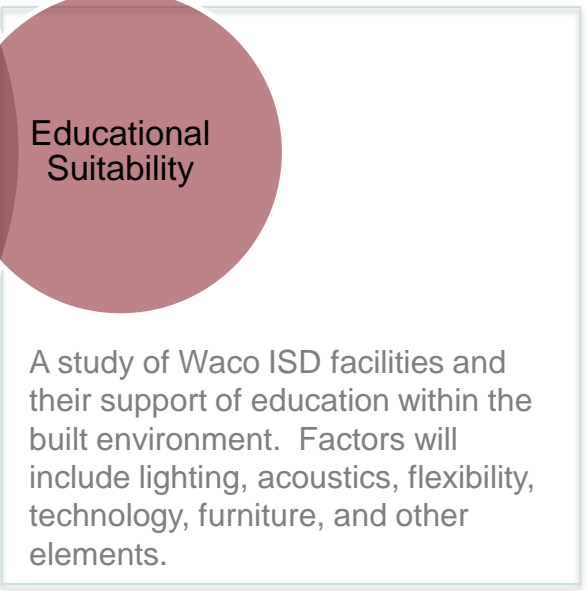
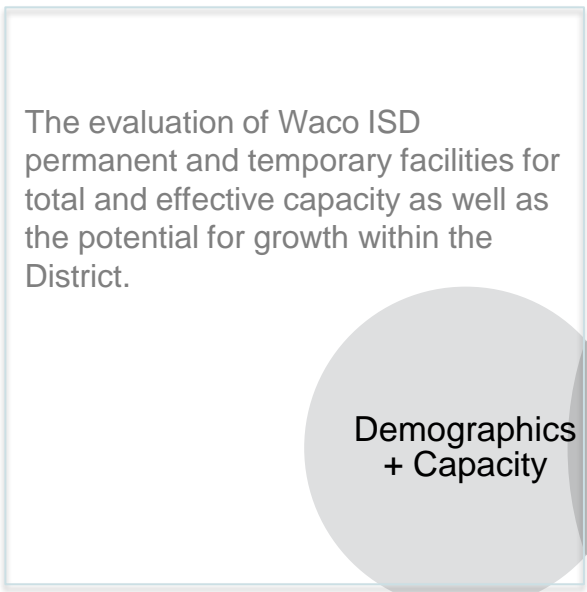
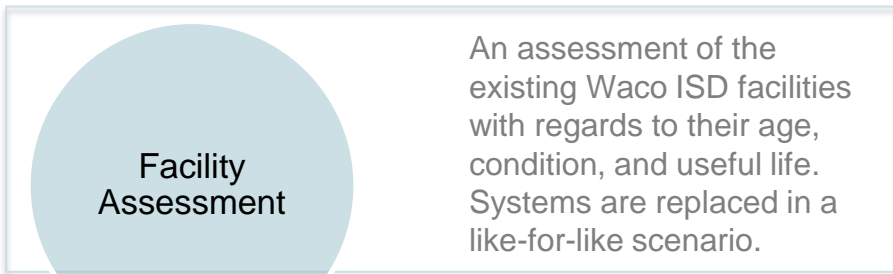
Agenda – CAC Meeting 2





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Does your phone number end in 6899? If so, please type your name into the chat – you got all trivia questions correct in our last meeting and we have a Starbucks gift card to send your way!

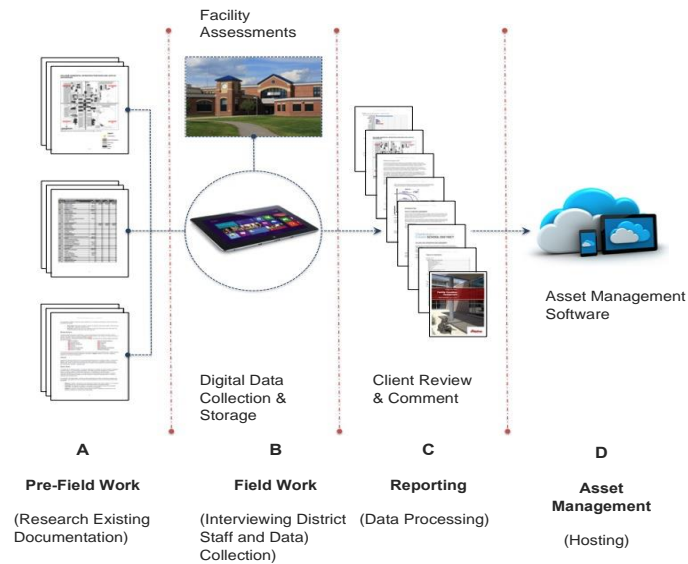


Facility Condition Assessment

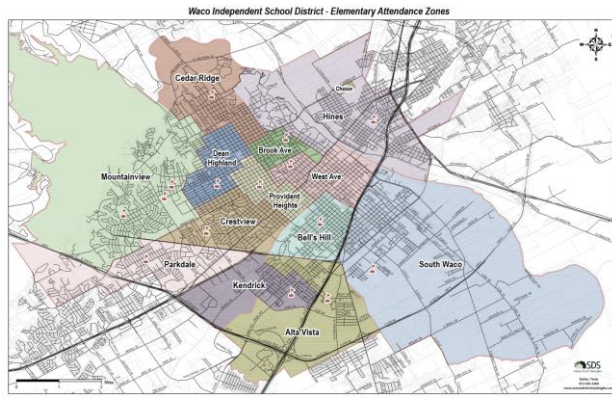


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Facility Assessment Team + Process

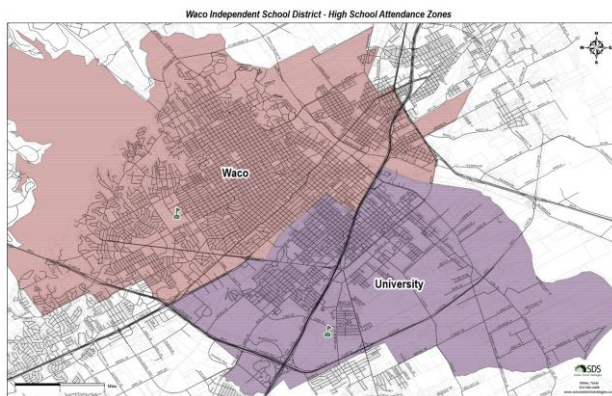
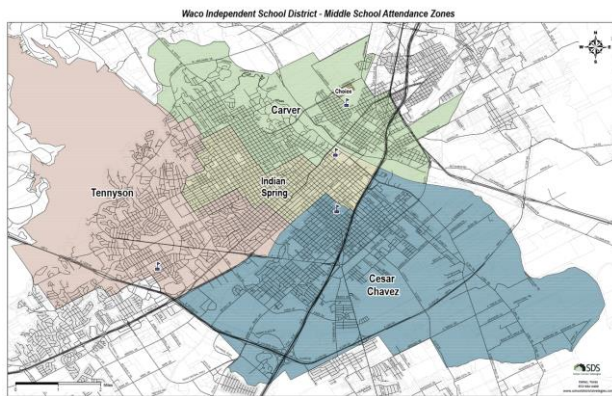


- Facility Condition + Site/Infrastructure Assessment Report
- Equipment Inventory
- 20-Year Capital Renewal Forecast
- Preventive Maintenance Schedules
- Fully Populated Capital Planning Software and CMMS Systems

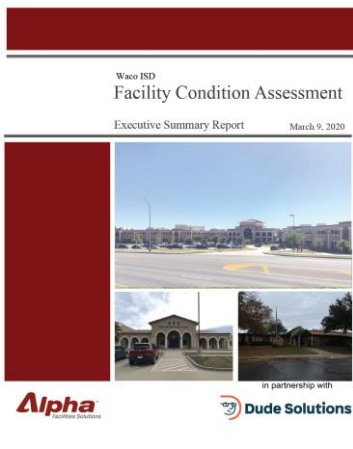


Facilities Overview

- 117 permanent facilities across 30 campuses
- 2,665,289 sf
- Construction 1910 to 2012
- Average Age is 51 years
- Median Age is 60 years
- 1,000+ pages of FCA data collected and analyzed over a 6-month period



Facility Condition Assessment Overview



Exterior systems: roof systems, wall systems, window systems, and exterior doors
Interior systems: walls, doors, floors, and ceilings
Heating, ventilation and air conditioning systems
Electrical and electrical distribution systems.
Plumbing systems.
Fire protection systems.
Conveying systems.
Commercial Kitchen Equipment
Site Systems: Vehicular and Pedestrian Pavements

Heating, Ventilation and Air Conditioning (HVAC)

Air-handling units
 Boilers, Chillers, and Colling Towers
 Building automation system
 Chilled and hot water circulation pumps
 Deaerators
 Exhaust fans (including fans associated with lab space ventilation hoods)
 Packaged units
 Unit heaters
 Furnaces
 Condensing Units and Heat pumps
 Make up air units and Energy recovery units
 Commercial Water heaters (80 gallons and larger)
 Mini - Split systems
 Air compressors (associated with HVAC controls)
 VAV Boxes, Fan Coil Units, and Unit Ventilators are collected at the system level from client supplied drawings only.
 Excluded are window units, terminal units, and thermostatic controls

Electrical

Main or Primary electrical panels (Where multiple panels exist, we will collect 200 Amp panels or larger)
 Switchgear
 Motor control centers
 Emergency Generators
 Photovoltaic Systems
 Automatic Transfer Switch
 Client owned major transformers (Step down transformers are excluded)
 Emergency lights and signs are collected at the system level only.

Equipment

Trash Compactors
 Laundry (commercial washers and dryers)

Plumbing

Main backflow preventer
 Domestic water booster pumps
 Sump pumps
 Domestic Hot Water Heaters (over 80 gallons)

Commercial Kitchen- major equipment

(above approximately \$2000 value)
 Walk-in freezer and refrigerator equipment
 Ovens, stoves, broilers, grills
 Reach-in refrigerators and freezers
 Dishwashers, garbage disposals
 Fryers, kitchen exhaust hoods

Life Safety/Security

Fire alarm system
 Sprinkler system
 Fire panel
 Fire suppression system
 Fire pump
 Fire extinguishers, Eyewash showers, AED's, are collected at the system level only.

Conveying

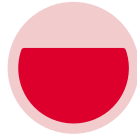
Elevators
 Escalators
 Dumb Waiters

Facility Condition Assessment Report



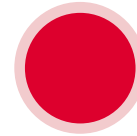
Needs Significant Improvement

Administration Building
Cedar Ridge ES
Crestview ES
Facilities & Maintenance
Carver MS
Hillcrest PDS
Indian Springs MS
Kendrick ES
Parkdale ES
South Waco ES
Transportation
Waco High School
Wiley Opportunity Center



Needs Moderate Improvement

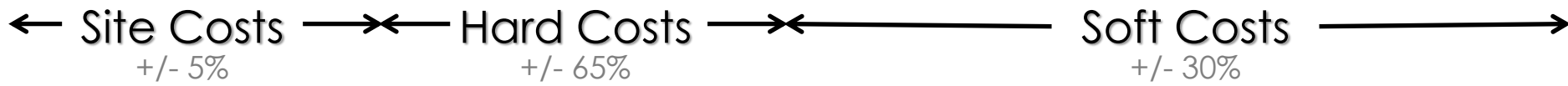
Alta Vista ES
Brazos HS Credit Recovery
Lake Air Montessori School
Mountainview ES
North Waco
Tennyson MS
GWAHCA
GWAMA



Needs Minor Improvements

Athletics Complex
Bells Hill ES
Brook Avenue ES
Cesar Chavez MS
Dean Highland ES
Hines ES
Provident Heights ES
University High School
West Avenue ES

Comprehensive Building Systems



Land / Site
<ul style="list-style-type: none"> • Land Cost • Closing Costs • Title Survey • Env. Site Assessment • Geotechnical Survey • Demolition

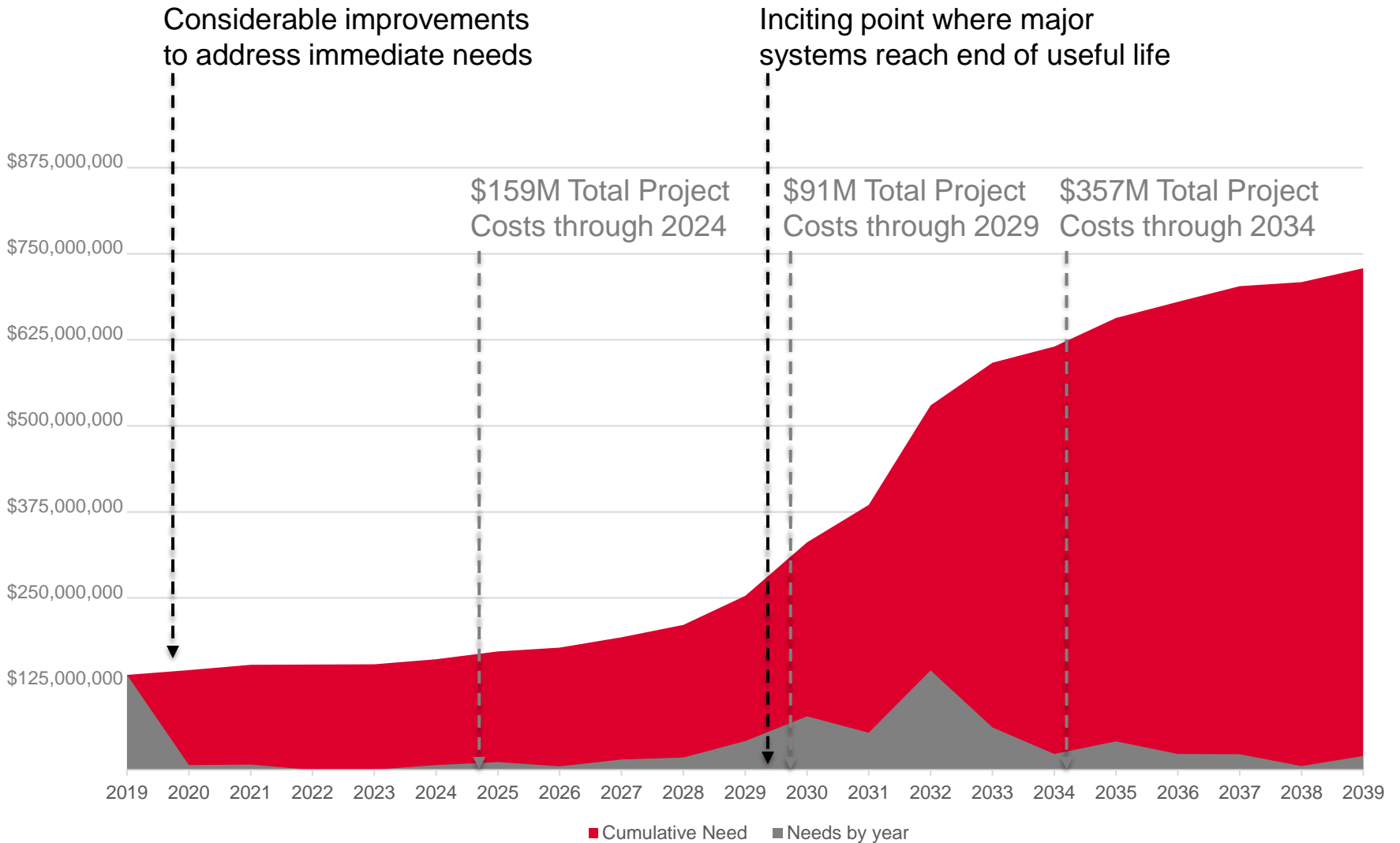
Building
<ul style="list-style-type: none"> • Foundations • Structural Steel • Exterior Envelope • Interior Finishes • Conveying • HVAC & Plumbing • Electrical • Low Voltage Systems • Fixed Equipment • Sitework

Interior Elements
<ul style="list-style-type: none"> • Furniture, Fixtures and Equipment • Technology

Development
<ul style="list-style-type: none"> • Design Fees • Jurisdictional Fees • Topo Survey • Geotechnical Testing • Materials Testing • Moving Costs

Additional Considerations:
<ul style="list-style-type: none"> • Like-for-like Replacement • Code Required Improvements • Inflation

Analysis of Total Project Costs



Addressing Facility Needs

Vehicle Care + Maintenance

Facility Parallel



1964 Chevy Malibu
Dependable vehicle
Classic
Meets Fundament Needs

Average age of WISD Facility



On-going maintenance:
Oil Changes
Tire Rotations
Body + Paint Repair

“Needs Moderate Improvements”
Campus
Site Improvements
Window / Roof Replacement



Re-building:
Engine Overhaul
Drive Train Improvements
Seat Replacement

“Needs Significant Improvements”
Campus
Electrical Service + Distribution
HVAC Replacement
Fire Alarm / Suppression Systems



Gas Mileage
Safety
Automatic Locks, Seats, Windows
On-Star

New Facility
Meeting Modern Educational Needs
HVAC Efficiency + Outside Air
ADA Accessibility + Building Codes



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District Educational Vision



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MISSION

The mission of Waco ISD is to provide an educational foundation that ***empowers and values all.***

VISION

The vision of Waco ISD is to grow students and staff to ***create a better future for all.***

Waco ISD Mission & Vision



Top 10 Skills

in 2015

1. Complex problem solving
2. Coordinating with others
3. People management
4. Critical thinking
5. Negotiation
6. Quality control
7. Service orientation
8. Judgment and decision making
9. Active listening
10. Creativity

The Future of Jobs

Top 10 Skills

in 2015

1. Complex problem solving
2. Coordinating with others
3. People management
4. Critical thinking
5. Negotiation
6. Quality control
7. Service orientation
8. Judgment and decision making
9. Active listening
10. Creativity

in 2020

1. Complex problem solving
2. Critical thinking
3. Creativity
4. People management
5. Coordinating with others
6. *Emotional intelligence*
7. Judgment and decision making
8. Service orientation
9. Negotiation
10. *Cognitive flexibility*

Source: Gray, Alex. "The 10 Skills You Need to Thrive in the Fourth Industrial Revolution." *World Economic Forum*, www.weforum.org/agenda/2016/01/the-10-skills-you-need-to-thrive-in-the-fourth-industrial-revolution/.

The Future of Jobs

Our graduates need to be:

- *Creative* **problem solvers**
- *Skillful* **team members**
- *Effective* **communicators**
- *Confident* **life-long learners**
- *Informed* **citizens**
- *Well-rounded* **individuals**

Creative Problem Solver

- Conflict resolution
- Creativity
- Logical reasoning
- Problem sensitivity
- Mathematical reasoning
- Visualization
- Judgment and decision-making
- Content knowledge

Skillful Team Member

- Active listening
- Critical thinking
- Monitoring self
- Coordinate with others
- Emotional intelligence
- Negotiation
- Service orientation

Effective Communicator

- Active listening
- Express ideas in multiple ways
- Interpersonal skills
- Mastery of language, information and knowledge
- Self-awareness
- Information, media and technology literacy

Life-long Learner

- Self-direction
- Digital literacy, communication, critical thinking and problem solving
- Collaboration skills
- Creativity and imagination
- Content knowledge

Informed Citizen

- Service orientation
- Cultural awareness
- Global awareness
- Empathy
- Personal and social responsibility

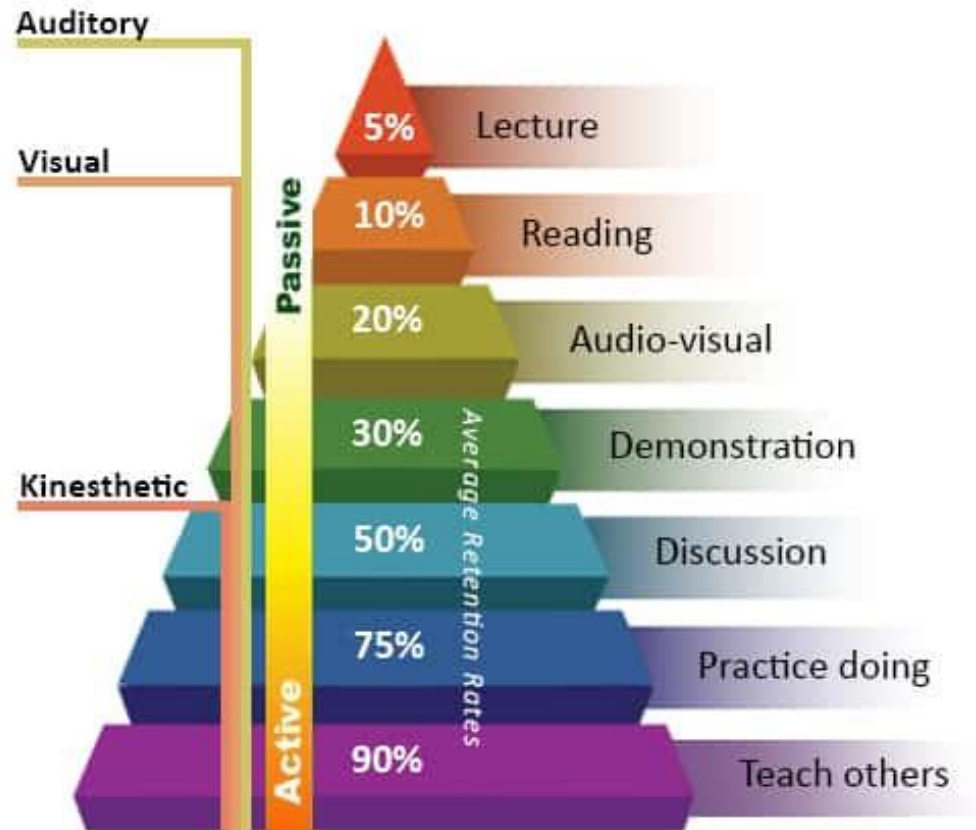
Necessary Attributes



Attributes In Action – A Culture of Learning for All



The Learning Pyramid



Adapted from the NTL Institute of Applied Behavioral Science Learning Pyramid

Source: Education, Corner. "The Learning Pyramid." Education Corner© Online Education, Colleges & K12 Education Guide, 2021, www.educationcorner.com/the-learning-pyramid.html.



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21st Century Learning Environments





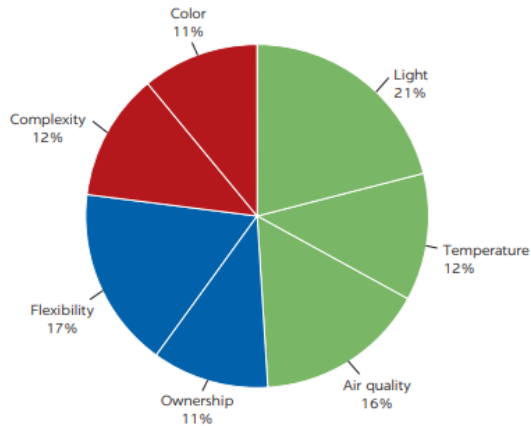
Student Population: Every year the student population is becoming more diverse, bringing into question whether traditional instructional methods in traditional institutions will still work.

Methods of Teaching: Knowledge is jointly constructed by students and faculty alike and assumes that teaching is an art of collaboration and understanding.



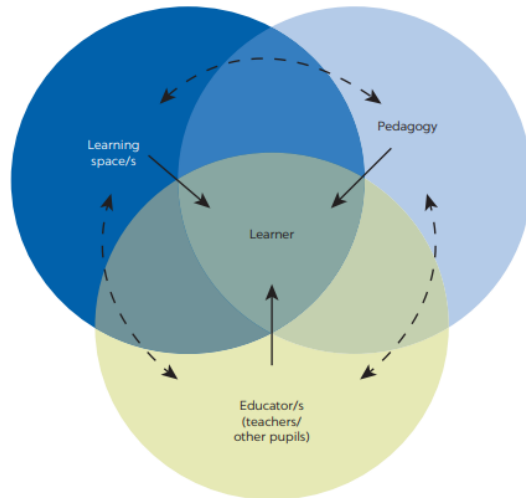
21st Century Learning Environments

Contribution of each classroom measure



Source: Barrett et al. 2015.

Learning interactions: Teacher, spaces, and pedagogy



Source: Barrett et al. 2015.

- 1 in 6 individuals sets foot in a school every day
- The average person spends 93% of life indoors.
- **Comfortable temperature** range is very important for teachers' wellbeing (Sadick and Issa 2017) and pupils' academic performance (Goodman et al. 2018; Haverinen-Shaughnessy et al. 2015).
- **Natural light** elevates mood, increases concentration, and can even help raise average grades by up to 25%. A study of 21,000 U.S. elementary students showed that, over one school year, learners who were exposed to more sunlight during their school day displayed 26 percent higher reading outcomes and 20 percent higher math outcomes than those in less sunny classrooms.
- **Good acoustics** and the conditions that allow clear communications to take place are intuitively important with external noise (such as traffic, airplanes, and other children playing nearby) appears to be a real problem that negatively affects academic progress (Lukas et al. 1981)

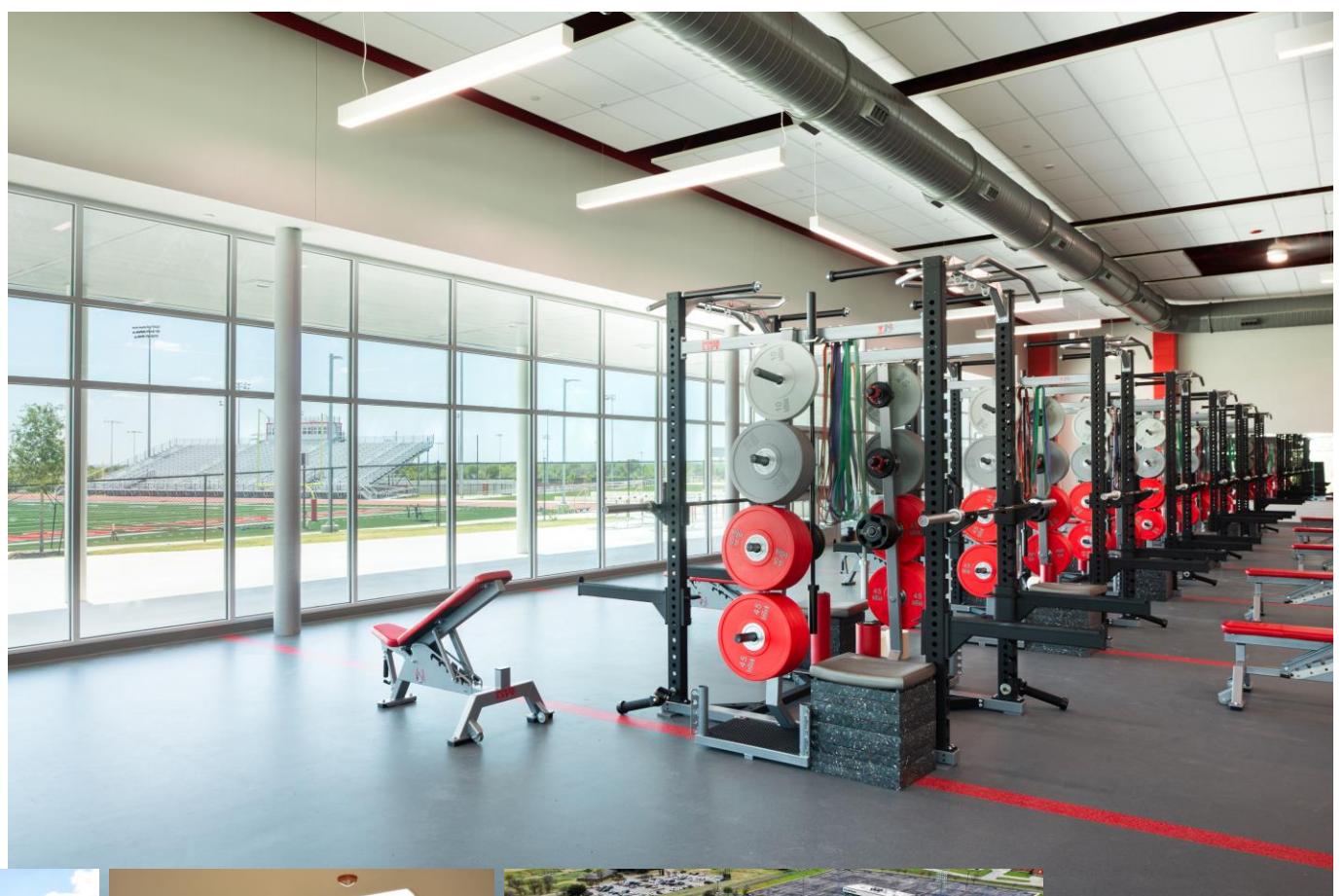
21st Century Learning Environments



Core Academics



Career + Technical Education (CTE)



Athletics



Visual + Performing Arts



Libraries

What vision do you have for Waco ISD facilities?

- Automatic split into small groups
- 10 minutes to discuss with 1 minute warning
- Each group will have a moderator to discuss the prompt
- Each group will need a reporter to summarize the small group's discussion
- Automatic regroup and sharing with large group
- Type your group's main findings in the chat

Small Group Breakouts

Wrap-Up & Next Steps



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Meeting Schedule

Questions + Feedback



Thank You!



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Next Meeting: Monday, February 8th @ 6:30pm