APPENDIX

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- 02 GREENING SCORE BY SCHOOL
- 03 ADDITIONAL RESOURCES



MVWSD OUTDOOR LEARNING & GREENING STANDARDS





























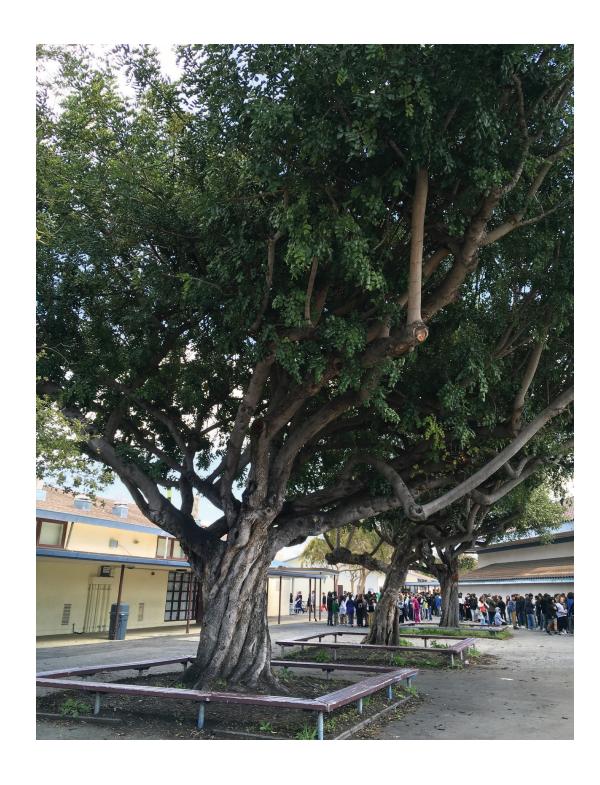


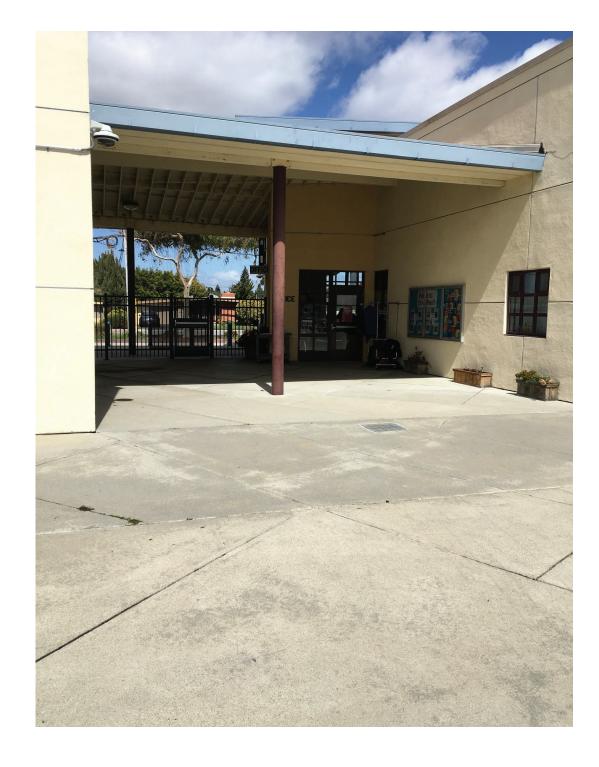












# CRITTENDEN METRIC CHECKLIST: PHYSICAL COMFORT



1	Seating areas are sheltered from sun, rain, and wind	
2	Multiple seating areas for different group sizes and activities, with at least one space for large school functions	<b>/</b>
3	Learning and gathering areas are accessible and comfortable to students of all relevant ages and abilities	
4	Visual screening between campus and neighboring areas; planting buffers nearby noise	
5	Tree canopy will eventually cover 30% of school property	
6	Forest or grove setting	
7	Natural materials (mulch, decomposed granite, stone, etc.) are accessible for physical interaction	
8	Shaded, comfortable lunch area	<b>/</b>
9	Existing shaded spaces are programmed to encourage use	
10	Heat island effect mitigated by painting asphalt with lighter, more reflective colors	
	TOTAL SCORE: PHYSICAL COMFORT	2



#### ADDITIONAL NOTES

Students mainly sit on the ground.

Small grove setting near discus (principal's favorite spot).

Would like to see benches along the building edges so students don't sit on the ground.

Quad area is very reflective (blinding).

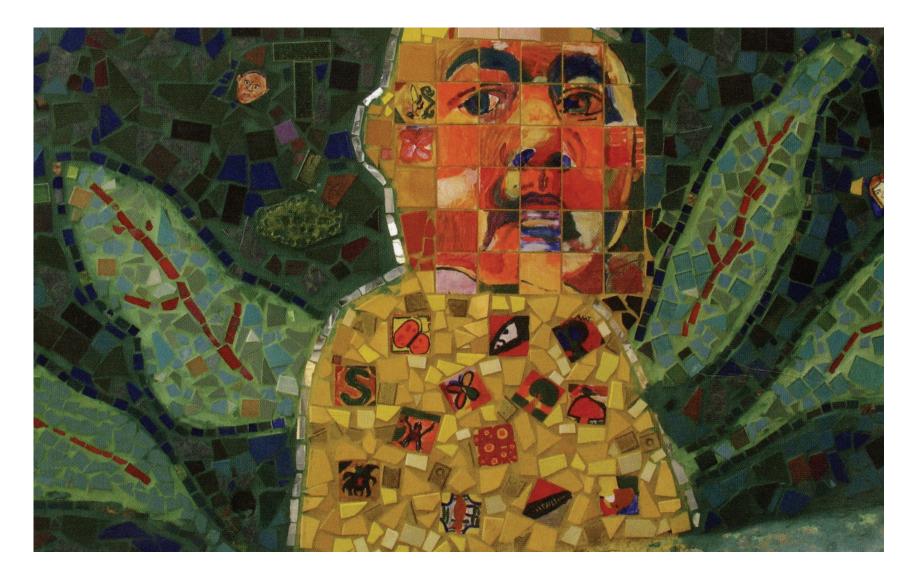
#### **SCORING GUIDE**:

0-3  $\checkmark$ 's = NEEDS WORK | 4-7  $\checkmark$ 's = ADEQUATE | 8-10  $\checkmark$ 's = EXCELLENT

# CRITTENDEN METRIC CHECKLIST: MENTAL WELL-BEING



1	Quiet, semi-private spaces for contemplation		
2	Outdoor spaces for conflict resolution, and emotional & physical regulation are adjacent to classrooms		
3	Use zones on campus are laid out and defined to minimize conflict		
4	Opportunities for student horticulture	<b>\</b>	
5	Planting and materials engage all five senses		
6	Therapeutic interventions: sensory wall, walkway, auditory features		
7	Therapeutic interventions are accessible to the whole school population		
8	Student creations are used or on display		
9	Space for art production and/or performance		
10	ELEMENTARY: Space for messy play in a managed/controlled space (eg. mud table) MIDDLE: Spaces for socializing in various group sizes		
	TOTAL SCORE: MENTAL WELL-BEING	1	



#### ADDITIONAL NOTES

No active murai program.		

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# CRITTENDEN METRIC CHECKLIST: EXPLORATION & DISCOVERY



1	Areas with varied topography	
2	Environment is explicitly designed to change with climate & weather conditions over time, and for student engagement	
3	At least one natural structure provides an outdoor "destination"	
4	Areas for native wildlife habitat	<b>/</b>
5	Variety of tree types (deciduous/evergreen, small/large)	<b>/</b>
6	Diverse planting palette without Cal-IPC-identified invasives species*	
7	ELEMENTARY: Nature play opportunities (informal play with natural materials) MIDDLE: Outdoor Science Laboratory	
8	ELEMENTARY: Nature play area compliments the traditional play structures and opportunities MIDDLE: Discovery Path connects distinct spaces around the campus	
9	ELEMENTARY: Movable/flexible play elements MIDDLE: Customizable outdoor space with movable furnishings	
10	ELEMENTARY: Nature play elements allow for vestibular movement MIDDLE: Natural areas with opportunities for physical challenges (e.g. a "Confidence Course")	
	TOTAL SCORE: EXPLORATION & DISCOVERY	2

#### **SCORING GUIDE**:

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#### ADDITIONAL NOTES

Various levels of maturity.

Living classroom area is a nice experience as a thoroughfare. There are no benches that invite you to stop and sit down.

There was a "bug club" the year prior.

<sup>\*</sup>Cal-IPC (California Invasive Plant Council) works to stop the spread of invasive plants across California They lists invasive plants on their website: https://www.cal-ipc.org/plants/inventory/

# CRITTENDEN METRIC CHECKLIST: OUTDOOR LEARNING



1	Facilitate and support student understanding of their environment through data collection, informed observations and guided learning	
2	Outdoor learning garden provides opportunities for students to participate in every stage of gardening (seeding, planting, harvesting, composting)	
3	Outdoor learning garden has seating, water, secure storage, and an appropriate number of raised beds	
4	Outdoor learning garden is shaded for comfort	
5	There is an outdoor space suitable for classroom instruction	
6	District's maintenance staff is familiar with Bay-Friendly and other sustainable maintenance practices	
7	School organizes community maintenance days	
8	Native plant garden or native planting throughout outdoor areas increases local ecological literacy	<b>/</b>
9	Educational signage and/or artwork makes cultural references to local community	
10	Green infrastructure* is visible through signage and/or design	
	TOTAL SCORE: OUTDOOR LEARNING	1

#### **SCORING GUIDE**:

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#### ADDITIONAL NOTES

Raised beds is a forgotten space, and used very little.

Currently Living Classroom is not as active on this site.

Amphitheater is used for instruction occasionally, but not shaded.

Picnic tables in amphitheater were requested to be moved to the shaded lunch area.

MVWSD OUTDOOR LEARNING & GREENING STANDARDS

<sup>\*</sup>Green infrastructure filters and absorbs stormwater through a combination of natural and built materials. Examples of green infrastructure include: rain gardens, bioswales, infiltration basins, green roofs, permeable paving, subsurface detention systems.

# CRITTENDEN METRIC CHECKLIST: OPERATIONS & SUSTAINABILITY



1	Planting suited to the regional climate and campus microclimates	
2	Plants are irrigated with efficient systems	
3	Stormwater is actively captured and/or infiltrated on site	
4	Lawn limited to necessary areas (playfields, etc.)	
5	Impermeable surface limited to necessary areas (ball play, circulation, etc.)	
6	Library has adjacent seating/instructional outdoor space	
7	Existence of a schoolyard committee (dedicated or part of a related group)	
8	School community outside of maintenance staff (students included) involved in schoolyard stewardship	
9	School has acquired outside resources (community partnerships and/or funding) for outdoor greening & learning	
10	School has an action plan/design vision for future school site improvements	
	TOTAL SCORE: OPERATIONS & SUSTAINABILITY	3



#### ADDITIONAL NOTES

Trees in the quad are super tiny.

Lawn in front of school is not used at all.

Students may want to start a beautification/planting club.

MVEF - education foundation.

#### **SCORING GUIDE**:

0-3  $\checkmark$ 's = NEEDS WORK | 4-7  $\checkmark$ 's = ADEQUATE | 8-10  $\checkmark$ 's = EXCELLENT

# CRITTENDEN METRIC CHECKLIST: STUDENT SAFETY & EXPERIENCE



1	Natural features define and reinforce the schoolyard boundary with public shared-use areas	
2	Natural features define and reinforce distinct outdoor spaces	
3	School entry reflects greening and sustainability objectives	
4	Waiting areas for pickup and dropoff have suitable amenities (shelter, seating, adequate visibility)	
5	Site exiting and accessibility requirement are maintained	<b>/</b>
6	Movement between outdoor spaces is fluid	
7	Recreation is encouraged in supervised areas of campus are easily accessible from school buildings	
8	Gathering spaces for small groups in a natural setting	
9	Outdoor learning garden is secure but visible through gates, fencing and/or planted screens	
10	Loose materials are not sharp or heavy and tripping hazards are mitigated	
	TOTAL SCORE: STUDENT SAFETY & EXPERIENCE	4



#### ADDITIONAL NOTES

Pick-up/drop-off could use seating.

Screening at school frontage is lacking.

#### **SCORING GUIDE**:

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# CRITTENDEN SUMMARY: SCHOOL GREENING SCORES



#### RANKING LEGEND:

NEEDS WORK: 0-3 **√**′s 4-7 **√**′s ADEQUATE: EXCELLENT: 8-10 **√** 's

GREEN SPACE (SF PER STUDENT)	SHADED SPACE (SF PER STUDENT)	SHADED SPACE: TREE CANOPY (SF PER STUDENT)	OPEN SPACE: SCHOOLS (SF PER STUDENT)	OPEN SPACE: CITY PARKS (SF PER STUDENT)
391	95	59	1,863	1,706

#### RANKING LEGEND:

RANKS IN THE LOWEST 4 RANKS INTHE MIDDLE 4 RANKS INTHETOP 3

SHADED SPACE: TREE CANOPY (SF, % TOTAL SPACE) 34,661 (8%)

#### RANKING LEGEND:

NEEDS WORK: 0-14% tree canopy shade of total area ADEQUATE: 15-29% tree canopy shade of total area **EXCELLENT:** 30% or more tree canopy shade of total area

#### Transfer scores from category assessment pages



PHYSICAL COMFORT



MENTAL WELL-BEING



**EXPLORATION & DISCOVERY** 



**OUTDOOR LEARNING** 



**OPERATIONS & SUSTAINABILITY** 



STUDENT SAFETY & EXPERIENCE

# CRITTENDEN GREENING PRIORITIES\*



### PHYSICAL COMFORT

- 1 More shaded seating in quad, amphitheater and along buildings
- 2 Take advantage of existing trees, including Redwood grove and next to basketball courts
- 4 Paint paving to alleviate heat, and to activate blacktop
- 5 Add shaded areas for instruction before P.E. activities next to lawn/fields
- 6 Seating and diverse planting for pickup/dropoff area and lawn space at school frontage



### MENTAL WELL-BEING

- 1 Quiet, semi-private areas for emotional regulation
- 2 Dedicated spaces in between classrooms for breaks and physcial regulation
- 3 Enhance patio next to art classroom
- 4 Integrate opportunities for mural/mosaic



### **EXPLORATION & DISCOVERY**

- 1 Diversify planting and tree palette, including native plants & habitat gardens
- 2 Natural Areas for opportunities of physical challenge, like a confience course
- 3 Customizable outdoor space with moveable furnishings
- 4 Discovery path connecting distinct spaces around the campus



### **OUTDOOR LEARNING**

- 1 Enhance existing living classroom spaces
- 2 More tables outside classrooms within eyesight of teachers
- 3 Create spaces for outdoor student clubs
- 4 More tables/flat surfaces for outdoor classrooms



### **OPERATIONS & SUSTAINABILITY**

- 1 Choose plants that can be maintained without intense manicuring (i.e. right plant, right place)
- 2 Use recycled materials where possible
- 3 Rejuvenate and maintain raised beds
- 4 Pickup/dropoff/PE area mostly used for attendance -more planting/trees might be useful to deter active play
- 5 Activate lawn in front of school
- 6 Provide proper maintenance training to district maintenance staff (i.e. Rescape)



# STUDENT SAFETY & EXPERIENCE

- 1 Repair drainage problems at lunch area
- 2 Add play turf to paved areas with high recreational value

MVWSD OUTDOOR LEARNING & GREENING STANDARDS

<sup>\*</sup>The following greening opportunities were determined by the metric score assessments and meetings with the principal, staff and community conducted in September-December 2023.