



Deer Valley Unified School District

School News

H I G H L A N D L A K E S S C H O O L

August 2023

MAIN # 623.376.4300

ATTENDANCE # 623.376.4390

Mark Anderson, Principal

Danielle Ware, Assistant Principal

From the Principal, Mark Anderson...

Welcome to the 2023-2024 school year! I know that this year will be especially good for the students at Highland Lakes. The beginning of the school year is always an exciting time.

Kindergarten students and their parents are anxious about the new adventure that they are about to begin, and returning students are wondering about what changes the new school year will bring for them. Teachers are planning exciting lessons for their students and are looking forward to helping your child succeed. We are working very hard to make certain that our students are developing strong academic, social, and emotional skills.

There is a new energy this year that seems to be contagious. Along with the new energy, we have also added the following staff members to the Highland Lakes School family:

Liz Wolcott - Attendance Clerk
Alex Stone - Maintenance Staff
Jenny Stilgenbauer - 2nd Grade
Jessica Heeb - 5th Grade
Barbara Asaro -RTI
Cheryse Blake - ELL Specialist
Calvin Erickson - MS Math
Corinne Gettys - MS Art
Forrest McCollum - Gifted Specialist
Brigette McKee - MS P.E.
Ian Miller - MS Language Arts
Kylie Reynolds - Special Education
Caitlyn Roberts - Special Education
Linda Slavick - 7th Grade Math
Lynn Sullivan - MS Spanish
Christina Kemp - Monitor
Jennifer Sirakis - Paraprofessional
Lindsay Lerma - Elementary Spanish

Each teacher brings their own energy and expertise to our campus and I truly believe they are all excellent additions to our staff. The new teachers in partnership with our returning staff will continue to offer your children the high quality of academics you have grown to expect from the HL's educational community.

Upcoming School Events

August 2023

- Friday 18**
 - 2 pm PLC Early Release
 - 2 pm Kona Ice
- Wed 23**
 - 9am Bear Buck Store K-6
- Thurs 24**
 - 4:30 pm Great Skate Family Skate Night
- Friday 25**
 - 2 pm PLC Early Release
 - 2 pm Kona Ice



Deer Valley Unified School District (DVUSD) is currently in the process of reviewing materials for a Math Curriculum Materials Adoption for grades K-5. The curriculum adoption team has selected potential resources for our K-5 Math students and teachers. Materials are now available for public review and will remain available until September 29, 2023.

Please visit [the DVUSD K-5 Mathematics Adoption webpage](#) for additional information and to provide feedback from July 25-Sep 29, 2023.



[Click for the District 2023-2024 Calendar](#)

September 2023

- Friday 1**
 - 8:30 am Drink Drop Curbside Drop Off
 - 9am PTO Meeting
 - 2 pm PLC Early Release
 - 2 pm Kona Ice
 - 6pm PTO Zoom Meeting
- Monday 4**
 - **NO SCHOOL LABOR DAY**
- Thurs 7**
 - Fall Picture Day
 - 5:30 pm Volunteer Training @Library
- Friday 8**
 - 3:30 pm (No PLC)
- Friday 15**
 - 8:30 am Drink Drop Curbside Drop Off
 - 2 pm PLC Early Release
- Wed 20**
 - 9am Bear Buck Store K-6
- Friday 22**
 - 2 pm PLC Early Release
- Monday 25**
 - **NO SCHOOL FALL BREAK DAY**
- Friday 29**
 - 3:30 pm (No PLC)

Save the Date & Click for More info on [Future Freshman Nights](#)

- **Aspire Nov 9th**
- **Barry Goldwater Oct 30th**
- **Boulder Creek Nov 13th**
- **Deer Valley Nov 8th**
- **Mountain Ridge Nov 16th**
- **Sandara Day Nov 6th**



School Picture Day

Thursday, September 7th

**LOOK FOR PRE-ORDER INFO WILL BE SENT HOME AND
COMMUNICATED VIA EMAIL.**



Professional Learning Community Fridays

Bears R.O.A.R.

Staff members at Highland Lakes participate in monthly professional development seminars throughout the year. In July and August, the staff participate in the district's Back to School Rally that was held at GCU, seizure training for school personnel as mandate by the state, and training on the new district grading practices and procedures. Highland Lakes' teachers and administration also participated in discussions regarding our newly created Highland Lakes R.O.A.R. Matrix. Throughout the year, we will continue to have discussions on how we can support academic and social needs of our students.

Bear's R.O.A.R.

- R** is for Respectful
- O** is for On-Task
- A** is for Achieve
- R** is for Responsible





Second Grade-Mrs. McCormick
Students made their own Clark the
Sharks and wrote about ways to
“stay cool in school” by following
rules to keep everyone happy and
safe!



4th Grade students are building "Commonality Towers", an engineering icebreaker challenge that involves building the tallest tower with cards that represent what your team has in common with each other.

Sorry Waad, Mr. Currier is still taller.



Mr. Currier Presented at the ASEE Conference in Baltimore

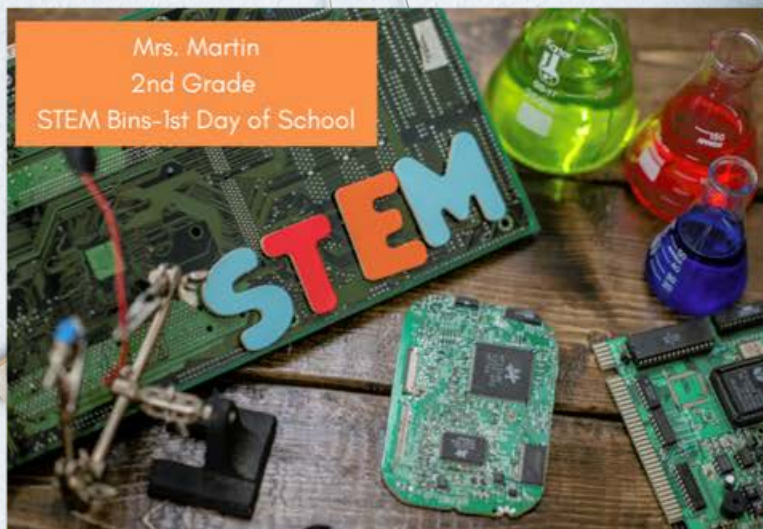
This summer, Mr. Scott Currier, 4th Grade Science & Social Studies Teacher, presented at the American Society of Engineering Education (ASEE) conference in Baltimore, MD. His presentation was a summary of work that had been done in collaboration with 3-6th grade teachers from Highland Lakes.

Mr. Currier was the elementary representative on the TaLENT presentation team. TaLENT is the Teacher Leader Engineer Network. The TaLENT Project was a collaborative group of 15 teacher leaders that collectively created an engineering guidebook for teachers. TaLENT centers on improving engineering instruction in K-12 schools. His presentation was a summary of the book study he facilitated at Highland Lakes.

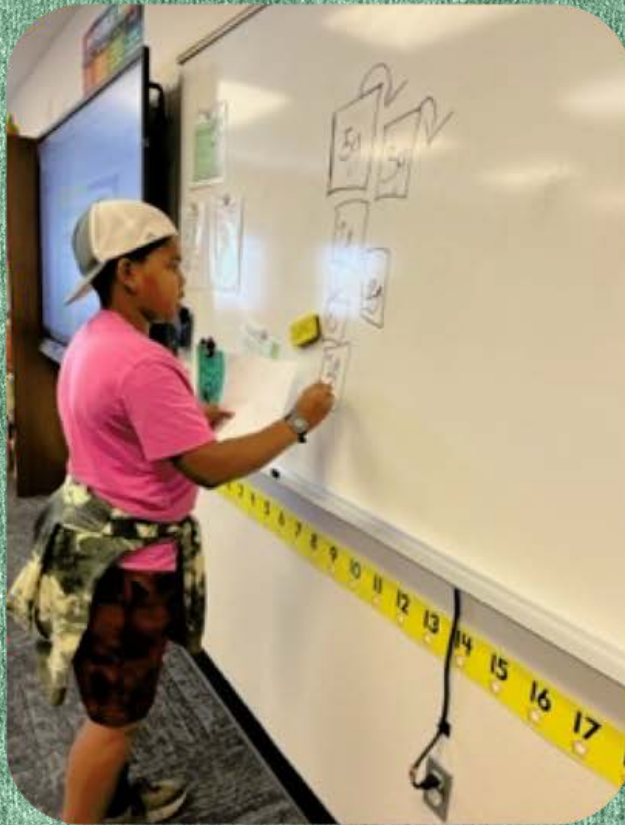
Mr. Currier plans to implement engineering challenges into his daily science lessons. He hopes to continue to collaborate with curriculum design here at the district level, school level, and along with his peers at Rice University and Arizona State University. Next summer the TaLENT group may have the opportunity to travel internationally.

Links to Mr. Currier's published work can be found in his bio on his website.





Mrs. Martin
2nd Grade
STEM Bins-1st Day of School



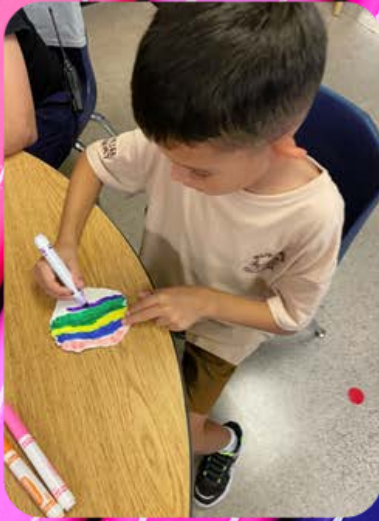
Mrs. Slavick
 Welcome to 7th Grade Math

$$2x + 10 = 3x$$

M A T H S

1
+
1

Are those students coloring clay? Why yes! 3rd grade art students are adding coloring to model magic clay to create ice cream. These clay 3D Ice cream sundae models will soon be featured in the "Sweet Shop" display case in the 500 hallway. Can't wait to see what these artist create that looks good enough to eat!



treering



10% OFF

purchase by
September 30

**CAPTURE YOUR MEMORIES
IN THIS YEAR'S**

**HIGHLAND LAKES SCHOOL
YEARBOOK!**

Customize Your 2 Free Pages

Add photos from your computer, Facebook, Instagram, Google Drive & more.

Answer fun Memory Questions to help remember the year.

The 2 Custom Pages are FREE and are printed ONLY in your book. Want more pages? Each additional 2 pages is just \$0.99.

Go to this Link to Order

www.dvusd.org/hl-yearbook

**Elementary Book \$30
Middle School Book \$40**

**Kinder
1st, 2nd
Donate
Gatorade**

12 oz
bottles

**2nd, 3rd, 4th
Donate
Soda**

Name brand
no diet

**5th, 6th
Donate
K-Cups**

Coffee, Tea,
Hot Chocolate

August 4th - Sept. 20th

PTSD Annual Drink Drop

★ Help us collect drinks to use for classrooms, Bear Buck Store, concessions and staff needs for the whole school year.

★ Label your drinks with your teachers name. The class with the most drinks collected wins a **DONUT PARTY**.

★ Drinks can be brought into the front office starting August 4h.

AM Curbside Drop-off Days:

Friday Sept 1st

Friday Sept 15th

**7th 8th
Donate
Gatorade
& Mini sodas**

12 oz bottles Gatorade no RED
Mini sodas, name brand, no diet

Roller Skating FUNDRAISER



Highland Lakes
Family Night

Thursday, August 24
5:30pm – 8:00pm

Admission \$15.00 includes skate rental, slice of
cheese pizza, & small drink



All Guests pay full admission.

This is a fundraiser for Highland Lakes please come
and show your support. A portion of each admission
will go back to the school.

Skatemate: \$7.00

Glow Stick: \$1.00

Skate & Play Game Card:

12 credits \$3.50



Visit the Roller Cafe

**\$40 for a Large Pizza,
Pitcher of Soft Drink and
10 Wings**





DEER VALLEY
Unified School District




VOLUNTEER INFO

For New Volunteers
For Returning Volunteers

<https://www.dvUSD.org/volunteering>

THANK YOU

Our Bear Bucks store was something our Middle School Bears really looked forward to, and it's all made possible because of your generous donations!



We are excited to be starting a new year and getting our Bear Bucks store off the ground as soon as possible. We would love to continue doing a raffle for students to trade in Bear Bucks for tickets to win *bigger* items, so we are also looking for gently used or new items that middle schoolers would be interested in: Sports team swag, school supplies (pens markers, mechanical pencils), gift cards, sports equipment, or other items you would like to donate that you think middle schoolers would love.

If you are able to donate, please visit our [Sign-up Genius](#) and drop off the items in the office or send with your child to the office or their homeroom teacher.

Your donations help us provide a positive environment for our wonderful middle schoolers! Thank you SO MUCH!

Please email corinne.gettys@dvusd.org if you have any questions.





Become a Business Partner

Level 1

Three

Level 2

Levels

Level 3

of Sponsorship

The Highland Lakes PTSO is looking for business partners from HLS families and local businesses to support our annual Bearathon! In addition to your sponsorship being tax-deductible we offer many ways to promote your business in the community:

\$1500

*Your business featured on the back of the Bearathon T-Shirts and on the electronic marquee and more...

\$1000

*Your business featured on our donation site, Pledgestar, and in the event promotion materials and more...

\$500

*Your business featured on all of our social channels and more....

*These are just a few of the ways we will promote your business, visit our website to review all the details and download a donation form:

<http://highlandlakesptso.com/partners>

Act by Oct 20th to allow
for promotional item
production time!



Tax ID# 46-3467094
Make checks payable to HLS PTSO
Mail: HLS PTSO
19000 N 63rd Ave, Glendale, AZ 85308
Email: highlandlakesptso@gmail.com



Highland Lakes School

August 11th
September 1st
October 6th
November 3rd
December 1st
January 12th
February 2nd
March 1st
May 10th

623.572.5662 | mcrowell@kona-ice.com | www.kona-ice.com





YOU ARE PART OF THE HLS PARENT TEACHER STUDENT ORGANIZATION

Who and what is Highland Lakes PTSO?

The HLS PTSO is a 501(c)(3) nonprofit organization. Our mission for Highland Lakes School is to promote and encourage communication and support between parents, students, teachers, administration, and the community. The PTSO also sponsors and organizes fundraising and school events, which deepen our community spirit and enrich our children's educational, social, and developmental experiences at Highland Lakes. Our organization is completely volunteer-based and we need your help to serve our roughly 1200 students.

HOW TO HELP YOUR HLS PTSO



Support our BEARs by Volunteering with us!

Meetings held on campus the first Friday of each month at 9AM
Zoom meetings at 6PM for those unable to attend. (*Dates subject to change)



Participate in the 11th Annual Bearathon Fun Run!

Unlike some schools, we do one large fundraiser a year and all proceeds stay with HLS, going directly back into our classrooms!



Join us in Restaurant Fundraising Nights!

Follow us on social to learn about upcoming events!



Shop at Fry's with Community Rewards!

To get started:

1. Go to this webpage:

<https://www.frysfood.com/topic/new-community-rewards-program>

2. Sign up or Sign in if you already have a VIP account

3. Search and select Highland Lakes PTSO #89415.

That's it, in 30 seconds you have made a difference at HLS!

FOLLOW US

Please make sure you stop by the website at <http://highlandlakesptso.com>, and follow us on our Facebook and Instagram @HLSPTSO for fun happenings and important announcements at HLS



NEWS

FALL SPORTS

Baseball & Softball

Tryouts: Monday, August 21st & Tuesday, August 22nd
after school from 3:45-5:15ish.
Check in with Mr. Nelson in Gym Lobby

WINTER SPORTS

Boys & Girls Volleyball

8th Grade Tryouts: Monday, November 6th & Tuesday, November 7th
7th Grade Tryouts: Wednesday, November 8th & Thursday, November 9th
after school from 3:45-5:15ish.
Check in with Mr. Nelson in Gym Lobby

Cross Country

No Tryout Necessary. Just come run!
Practice starts Monday, October 2nd after school 3:45-5:00ish.
Check in with Mr. Nelson in Gym Lobby

Wrestling

No Tryout Necessary.
Practice starts Monday, November 6th after school from 3:45-5:15ish
in the wrestling room attached to the gym.

SPRING SPORTS

Boys & Girls Basketball

8th Grade Tryouts: Monday, February 26th & Tuesday, February 27th
7th Grade Tryouts: Wednesday, February 28th & Thursday, February 29th
after school from 3:45-5:15ish.
Check in with Mr. Nelson in Gym Lobby

SPRING SPORTS CONTINUED

Track & Field
No Tryout Necessary.
Practice starts Monday, February 26th after school 3:45-5:15ish.

REGISTER MY ATHLETE

Before an athlete can participate in any way they must have all paperwork completed and on file.

- **Go to <https://registermyathlete.com> website to submit all physicals and other required paperwork prior to athletic participation.**
- **There is a \$60 participation fee which is payable online only at**

<https://azdeervalley.intouchreceipting.com>

Gym Event Admission

Adults	\$4
Family Pass (10 punches)	\$30
DVUSD Employees (with ID)	Free
DVUSD Students	Free

Find Game Schedules at

<https://www.dvUSD.org/domain/817>

Follow Us At



@HLSathletics



HUNGRY BEAR CAFE NEWS

MENUS

Get your menu info online!

- Go online to myschoolmenus.com
- Go online to the DVUSD website to download a printable pdf at <https://www.dvUSD.org/Page/242>

FREE AND REDUCED MEAL APPLICATIONS

Apply online at www.EZmealapp.com or get a form from the front office. For more information, contact 623-445-5166. Students who applied and were approved for meal assistance and associated benefits last school year are eligible for the same benefits through 9/11/23, or a new application is processed. If a new application is not approved by 9/11/23 your student(s) will pay the full meal price until re-certified.

PAYING FOR LUNCH

Load up your student(s) account with lunch funds online at ezschoolpay.com or drop a check to the front office.

- **DVUSD is waiving all EZ School App convenience fees from now through September 30th.**
- **You can drop off cash/check in the front office to be credited to your students account. Include your students name and number on the envelope.**

BIRTHDAY BUCKET

Parents now have the option of ordering a Birthday Party Bucket from the cafeteria!

The bucket will be delivered to your student's class at a designated time and location, making it super convenient for teachers and parents. Get the online form at:

<https://www.dvUSD.org/Page/65635>

Breakfast \$1.50

Lunch \$2.95

Reduced \$0

Cafe Manager Renee Denner



renee.denner@dvUSD.org | 623-376-4314 | @DVUSDNutrition



COMMUNICATION

TEXT ALERTS: If you are not receiving text message alerts from the district office and would like to, just text the letter “Y” to 68453

POWERSCHOOL: You can access your student’s grades and attendance records at any time through Powerschool. Bring your picture ID to the front office to pick up your password.

ONLINE PAYMENTS AND TAX CREDITS:

Access this through the online payment portal at: <https://az-deervalley.intouchrecepting.com>

STUDENT SUPPORT SERVICES

CHILD FIND: Child Find requirements under state and federal law are that all individuals with disabilities from birth through age 21 be identified, located, and evaluated for early intervention or Special Education services. If you know of someone who may qualify for these services, please encourage them to call their local school at 623-376-4301 or the district at 623-445-5000.

HLS POLICIES

ATTENDANCE CUTS Program (Court Unified Truancy Suppression): To encourage and improve school attendance, Deer Valley Unified School District has implemented a truancy program in partnership with Maricopa County Juvenile Court. Highland Lakes will be tracking attendance very closely. **Your child is expected to be at school every day**, unless there is an excused reason not to be. A student that is absent more than ten percent (18 days) of the required number of school days per year is considered to have “excessive absences” whether the absence is excused or unexcused. If a student should start a pattern of excessive absences, you will be contacted by letter or phone. The education of your child is extremely important to us. This program is another way of working with the community to ensure a quality education for all students. If you have any questions or concerns, please feel free to contact the front office at 623-376-4300. **Please report all absences to the attendance line at 623.376-4390.**

PEST CONTROL

Pest control sparying will occur once a month.

ATHLETES

If you are planning on participating in any sport this year, you must complete the eligibility requirements as detailed on our website <https://registermyathlete.com>

SIGNING OUT

To ensure that our academic time is respected, we are asking that parents do not sign out their children between 3:15 and 3:30. Fifteen minutes a day, added up over a month represents almost a full day of classes missed. PHOTO ID REQUIRED.

TRANSPORTATION

Any issues or questions with the bus need to go directly to transportation at 602-467-5096.

PARKING

- There is no parking or waiting on 63rd Avenue from Union Hills to Utopia. If you park or wait on 63rd Avenue, tickets have been issued.
- Please remember that our parking lots get very hectic in the morning and afternoon. Please do not leave your vehicle unattended along the curb at any time. Remember, our main focus is to keep all of our students safe.
- The car pool parking spots are reserved for those registered with the TRP program. The other reserved spots were won at school events. Please use courtesy and do not park in those spots.
- It’s against the law to park in the handicap spots (even for a second) without a handicap parking permit. Please keep these spots open for families that need them.
- Parents please be considerate of our families that live close to school and respect our neighbors when picking up and dropping off students.

VOLUNTEERS

Volunteers on campus (including field trips) need to have training and fill out yearly paperwork. For all the details visit: <https://www.dvusd.org/volunteering>

Highland Lakes School Mission Statement

Preparing today's learners to become tomorrow's leaders through technology, inquiry, common core standards and global citizenship.

Principal: Mark Anderson

Assistant Principal: Danielle Ware

Nurse: Kristina Koan

K-6 Counselor: OPEN

7-8 Counselor: OPEN

Main Phone #: 623-376-4300

Attendance: 623-376-4390

Nurse: 623-376-4310

Fax: 623-376-4380

Address: 19000 N. 63rd Ave., Glendale, AZ 85308

Start Time = 8:45AM

Grade	Daily Release	PLC Fridays	Half Day
K/nder	3:20	1:50	11:55
1st - 8th	3:30	2:00	12:05

Office Hours = 8:00AM-4:00PM

Mascot: Bears

Colors: Blue & Green

Contact Site for Information Regarding Student Pick up:

Highland Lakes School - 623-376-4300

District Office - 623-445-5000

In case of emergency involving student evacuation, the following site has been designated as a relocation site.

Evacuation Location: Deer Valley High School

18424 N 51st Ave, Glendale, AZ 85308

The Deer Valley Unified School District does not discriminate on the basis of race, color, national origin, sex, sexual orientation, disability, age, or religion in its programs and activities.





2023-2024 Instructional Calendar

(8/17/22)

JULY 2023						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

July 4 - Independence Day
Offices Closed

July 31 - First Day for Students

AUGUST						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

Aug. 4, 11, 18, 25 - Early Release - 90 min

SEPTEMBER						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

Sept. 4 - Labor Day - No School
Sept. 1, 15, 22 - Early Release - 90 min
Sept. 25 - Fall Break Day - No School

OCTOBER						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Oct. 6, 20, 27 - Early Release - 90 min
Oct. 9 - Fall Break Day - No School
Oct. 12-13 - K-12 P/T Conferences - Half Day

NOVEMBER						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

Nov. 3 & 17 - Early Release - 90 min
Nov. 10 - Veterans Day Observed
Nov. 20-24 - Thanksgiving Recess

DECEMBER						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

Dec. 1 & 8 - Early Release - 90 min
Dec. 14 - HS Half Day
Dec. 15 - K-12 Half Day
Dec. 18 - Dec. 29 - Winter Break

JANUARY						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Jan 1 - New Year's Day No School
Jan. 2 - Staff Development - Full Release
Jan. 12, 19, 26 - Early Release - 90 min
Jan. 15 - Martin Luther King- No School

FEBRUARY						
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29		

Feb. 2, 16, 23 - Early Release - 90 min
Feb. 8-9 - K-8 only P/T Conf. - Half Day
Feb. 19 - Presidents Day - No School

MARCH						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

Mar. 1, 8, 22 - Early Release - 90 min
Mar. 11-15 - Spring Break
Mar. 29 - Spring Break Day

APRIL						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

***No Early Release Days during State testing
April 26 - Early Release - 90 min

MAY						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

May 3 & 10 - Early Release Days-90 min
May 16 - Last Day for students - Half Day
May 27 - Memorial Day - Offices Closed

JUNE 2024						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

	First Day of School
	Early Release Days - 90 min
	1/2 Day Release - See campus web pages for release times
	1/2 Day Release - Parent Teacher Conferences
	Last Day of School
	Graduation Dates
	No School - Federal Holiday or Break

Graduation Dates
May 16, 2024 MRHS=1:30 pm, BGHS=4:30 pm
May 17, 2024 SDOHS=9:00am, DVHS=12 noon, BCHS=2:30 pm
May 16 is last day of school - 1/2 day for all students

Grading Periods	
1st Quarter.....	Oct. 6, 2023 (48 days)
2nd Quarter.....	Dec. 15, 2023 (43 days)
3rd Quarter.....	Mar. 8, 2024 (46 days)
4th Quarter.....	May 16, 2024 (43 days)

Teacher Contract Days	
Teacher Contract Days.....	185
Student Contact Days.....	180
40th Day.....	Sept. 26, 2023
100th Day.....	Jan. 16, 2024

Early Release (90 min) PLC / PD Days	
1st Semester	2nd Semester
Aug. 4	Jan. 12
Aug. 11	Jan. 19
Aug. 18	Jan. 26
Aug. 25	Feb. 2
Sept. 1	Feb. 16
Sept. 15	Feb. 23
Sept. 22	Mar. 1
Oct. 6	Mar. 8
Oct. 20	Mar. 22
Oct. 27	Apr. 26
Nov. 3	May 3
Nov. 17	May 10
Dec. 1	
Dec. 8	
No Early Release Days during State testing	

No School - Federal Holiday or Break Days	
Sept. 4	Labor Day Recess
Sept. 25	Fall Break
Oct. 9	Fall Break
Nov. 10	Veterans Day
Nov. 20 - 24	Thanksgiving Recess
Dec. 18 - 29	Winter Break
Jan. 1	New Year's Day
Jan. 2	Staff Development
Jan. 15	ML King Jr. Day
Feb. 19	Presidents Day
Mar. 11 - 15	Spring Break
Mar. 29	Spring Break Day

Last day for students - May 16
Last day for teachers - May 17
1st semester = 91 days
2nd semester = 89 days