

February 28 & March 1, 2025

William & Mary's Batten School & VIMS Gloucester Point, Virginia





Blue Crab Bowl: Winners 1998-2024

See our history of Blue Crab Bowl teams from Virginia competitions, 1998 through 2024.

Lists of participating teams for



VIMS · NOSB · ODU

each year are posted on the Blue Crab Bowl website at http://web.vims.edu/adv/bcb/PDFnews.html.

1998 — 1st Annual Central Shenandoah Valley Regional Governor's School, Fishersville



2001 — 4th Annual Catholic High School, Virginia Beach



1999 - 2nd Annual

Lord Botetourt High School,

2002 - 5th Annual Grafton High School,



Yorktown



2000 — 3rd Annual

Grafton High School,

2003 — 6th Annual Thomas Jefferson High School, Alexandria



2004 - 7th Annual Thomas Jefferson High School, Alexandria



2005 - 8th Annual Chesapeake Bay Governor's School-Warsaw Campus



2006 - 9th Annual Chesapeake Bay Governor's School - Warsaw Campus



2007 - 10th Annual Chesapeake Bay Governor's School-Warsaw Campus



2008 - 11th Annual Bishop Sullivan Catholic High School, Virginia Beach



2009 - 12th Annual Bishop Sullivan Catholic High School, Virginia Beach



Continued on page 15

BLUE CRAB BOWL 2025

27th Virginia Regional Competition of the National Ocean Sciences Bowl

Regional Co-Host Institutions:

William & Mary's Batten School & VIMS

and

Department of Ocean and Earth Sciences, College of Sciences, Old Dominion University

The **Blue Crab Bowl** is one of 24 regional competitions of the National Ocean Sciences Bowl (NOSB®). The first NOSB competition was launched in 1998 by the Consortium for Oceanographic Research and Education (CORE) to further its mission of supporting and expanding oceans sciences education during the International Year of the Ocean. In 2007, CORE merged with the Joint Oceanographic Institutions (JOI) to form a new organization, the **Consortium for Ocean Leadership**. In 2023, the NOSB found a new home within the **Center for Ocean Leadership** at the University Corporation for Atmospheric Research in Boulder, Colorado. Both ODU and VIMS are affiliate members of the Center for Ocean Leadership.

Virginia's **Blue Crab Bowl** was among the original NOSB competitions. Designed to inspire and challenge high school students, the Bowl tests competitors' knowledge of the marine sciences. Each match pits two teams of four students in an academic quiz-bowl format. Competitors use a buzzer system to respond to rapid-fire multiple choice and short answer questions read by a Moderator. Additionally, teams work collectively to produce written answers to complex analytical questions.

This year, sixteen teams from around the Commonwealth compete in round-robin divisions, then double elimination matches that narrow the field. The final tournament rounds establish 1st-4th place winners.

Spectators are welcome in competition rooms, but may not:

- enter or leave a room during a match;
- take pictures, notes or audio recordings during competitions;
- use cell phones, smart watches or texting devices in competition rooms;
- communicate with contestants during matches, after breaks; or
- talk in the halls outside competition rooms during matches.

Please respect the integrity of the competition and the considerable effort made by ALL teams and officials in preparing for this event.

Awards

All Student Competitors

Blue Crab Bowl logo sweatshirts & logo lapel pins Blue Crab Bowl logo cinch backpack and logo lanyard Visual capture training workshop

All Coaches

Blue Crab Bowl logo sweatshirts
Wipebook Pro mini whiteboard notebook
1-year membership, Mid-Atlantic Marine Education Association (MAMEA)
2025 Sand Calendar

1st, 2nd, 3rd, 4th Place Teams

Custom design Crab Bowl Team Trophies

Competitor's Award – Custom Blue Crab Bowl Medallion

Coach's Award – Custom Blue Crab Bowl Mug & Wipebook flip chart

1st Place Team

Custom Blue Crab Bowl Champion Blankets
Competition slot at 2025 Virtual National NOSB Finals

1st Place Coach

Complimentary registration for 2025 MAMEA Fall Conference

Award support graciously provided by:

Old Dominion University: College of Sciences; Department of Ocean and Earth Sciences

William & Mary's Batten School & VIMS

VIMS Marine Advisory Program

Virginia Sea Grant

Center for Ocean Leadership

Splendid Sands.com

Mid-Atlantic Marine Education Association



Blue Crab Bowl 2025 - Event Schedule:

Friday, February 28, 2025: Batten School & VIMS Campus and Hotel, Gloucester

Team lunch on your own - prior to arrival

7:30 p.m.

6:15-7:00 a.m.

Approx. 5:00 p.m.

1:00 – 1: 45 p.m.	Team Check-In and Team Photos - Batten School & VIMS Visitor's Center – Watermen's Hall
1:45 - 2:00 p.m.	Welcome & Announcements - Auditorium - Watermen's Hall
2:00 - 2:10 p.m.	Divide into tour groups, transit to tour start points
2:10 - 2:35 p.m.	Tour Rotation 1: Various labs on Batten School & VIMS campus
2:35 - 2:45 p.m.	Transit to tour rotation 2
2:45 - 3:15 p.m.	Tour Rotation 2: Various labs on Batten School & VIMS campus
3:15 - 3:45 p.m.	Transit back to Watermen's Hall Visitor's Center, Break/Snacks
3:45 – 5:00 p.m.	Visual Capture Art & Science Workshop - Auditorium - Watermen's Hall
5:00 - 6:00 p.m.	Dinner: Taco & Fajita Bar - Batten School & VIMS Visitor's Center — Watermen's Hall
6:00 – 6:30 p.m.	W&M Undergraduate Program Overview - Auditorium — Watermen's Hall
6:30 – 7:15 p.m.	Mock Bowl - Auditorium – Watermen's Hall
7:15 - 7:30 p.m	Team announcements - Auditorium – Watermen's Hall

Saturday, March 1, 2025: All events at Batten School & VIMS Campus, Gloucester Pt.

Team Breakfast, in shifts - Hampton Inn Gloucester, breakfast room

Teams depart for hotel - Hampton Inn, Gloucester

7:45-8:15 a.m.	Team Check-In - Crab Pot Central (Watermen's Hall Visitor's Center - Batten School & VIMS)
8:30 a.m.	Competition Day Welcome and ALL HANDS Meeting Mandatory for all competitors and coaches; Announcements, rules review Auditorium – Watermen's Hall
9:00 a.m.	Round robin competitions begin.
11:15 a.m.	Lunch: Teams – Watermen's Hall Visitor's Center Volunteers – Davis Hall Atrium
12:00 p.m.	Double elimination rounds begin. Match schedule and room assignments posted at Crab Pot Central, Watermen's Hall
2:20 p.m.	Break & Snacks
2:35 p.m.	Championship Rounds begin. Played continuously, with announced breaks. Auditorium — Watermen's Hall
TBD	Awards Ceremony directly follows last competition round. Mandatory team attendance, coaches receive packets & awards. Auditorium — Watermen's Hall

Following Awards Ceremony, Official photos taken of Winning Teams; Students & Coaches complete event evaluation; Teams dismissed.

Teams & Coaches

Albemarle High School

Dr. Eric Bricker Iuliia Vitko

Broadwater Academy

Charles Carlson

Bruton High School

Liz Hobson Dr. Lisa Horrell

Catholic High School - A

Dr. Carol Stapanowich Jennifer McMullen

Catholic High School - B Jennifer McMullen

Martha Bradley

Chesapeake Bay Governor's School, Bowling Green

Chenoa Payne

Chesapeake Bay Governor's School, Glenns

Sara Chaves Beam

Chesapeake Bay Governor's School, Warsaw - A

James Beam

Chesapeake Bay Governor's

School, Warsaw – B Kim Olsen

Grafton High School Adrienne Richardson

Gov. School for Science & Tech Deidre Yee

Isle of Wight Academy Courtni Barnes-Smith

Liberty High School Maegan Winkelmann

Norfolk Collegiate School

Frank Thomson Christina Cooper

Seton School

Hank Konstanty Ekaterina Makarova

Warwick High School

Tristan Rivera Victoria Allan

Officials & Staff

Moderators

Celia Cackowski
Jordan Ferre'
Emily Frett
Kaitlyn Kowaleski
Nicole Millette
Sarah Nuss
Tori Nutt
Kristen Sharpe

Science Judges

Carol Hopper Brill
Angeline Dichera
Lexi Duscher
Justus Jobe
Renee Sanders Morabito
Emily Rivest
Shelby White
Dick Zimmerman

Rules Judges

Bayleigh Albert
Joe Caterine
Kaite Cisz
Bill Dunn
Lisa Eddy
Carter Lin-Romaine
Shyane Masters
Jeryl Phillips

Time Keepers

Olli Gilchrest
Grace Hancock
Stephanie Letourneau
Novia Mann
Nathan Maynard
Katherine Philipp
Felix Radford
Quinn Roberts

Scorekeepers

Hannah Brown
Robin Dudrick
Keqi He
Derek Jackson
Alexa Labossiere
Andrew Lindgren
Lindsey Smith
Matthew Thayer

Room Runners

Nikole Beck Sophia Bourcier Alyssa Bucci Talia Cartafalsa Jenny Dreyer Avery Gibbs Kelly Gonzalez
Alex McCullough
Tejaswini Ronur Praful
Fiona Reza
Marta Sanderson
Daniel Shi
Charlotte Smith
Dana Snyder
Olivia Szot
Mara Walters

Team Challenge Graders

Rich Brill Emily Hein Cecilia Lewis

Chief Rules Judge Lisa Lawrence

Chief Scorekeeper Erica Blue

Event Support

Maisie Curtin
Dave Ferree
Maddie Hubbard
Hilary Parmentier
Madeline Miller
Lily Shriner
Cheryl Teagle

Media/Photography

Bayleigh Albert Lathan Goumas

Special Guests

Dr. Chris Hein - Wakefield Associate Professor, William & Mary's Batten School & VIMS Director of of Undergraduate Program

Dr. Dave Rudders -Associate Director, VIMS Marine Advisory Program

Zara Fina Stasi - Visual Capture Artist, W&M Class of 2012

Dr. Kevin Yeager - Chair, Dept. of Ocean and Earth Sciences, Old Dominion University

BCB Regional Coordinator

Bethany Smith

Competition Rules Overview

The Blue Crab Bowl follows the official rules of the National Ocean Sciences Bowl (www.nosb.org). The following overview should help spectators follow the competition, but not all rules are presented here.

Officials' Roles

- · Moderator: Asks the questions
- Science Judge: Rules on answer acceptability
- Time Keeper: Keeps the match clock
- Score Keeper: Tallies team scores
- Rules Judge: In charge of procedure
- Team Challenge Judge: Grades Team Challenge Questions (TCQs)
- Room Runner: Provides support to competing teams

Players

For each match, a team is represented by 4 students: 1 captain and 3 players. The team's alternate (5th) player may rotate in at the beginning or end of a match segment.

Types of Questions

There are two "buzzer question" segments per match. Individual players of either team buzz in to answer multiple choice toss-up questions. If the answer is not acceptable, the Moderator offers the question to the opposing team. When teams give acceptable answers to toss-ups, they are offered a multiple choice or short answer bonus question. Teams may consult on bonus questions, but only the team captain may give the answer. Two team challenge questions (written, analytical) are presented between buzzer segments.

Answers

Responses to multiple choice questions can be the letter (W, X, Y, Z) or the word answer, exactly as specified in the NOSB notebook. Anything else is unacceptable, including the preface "My answer is..." The first answer stated is the one that counts. Responses to short answer questions must contain key words and concepts identified in the expected answer; the preface "My answer is" is permissible.

When do players use the buzzer and answer questions?

The buzzer is used only for toss-ups questions. Players buzz in after the question and prospective answers are read.

If a player buzzes in before the Moderator has completely read the question, the Moderator recognizes the player and the player answers the question. If the answer is unacceptable, the team loses 4 points and the question is read to the opposing team. If the answer is acceptable, the team gets 4 points and the chance to answer a bonus question. If a player "blurts" an answer without being recognized, their team loses its turn.

Timing

- After toss-up question is read:
 5 sec. to buzz in.
- · From being recognized to answer: 3 sec.
- After bonus question read to answer: 20 sec.
- For TCQ: 2-5 min.

Points

- Toss-up question: 4 points
- · Bonus question: 6 points
- Interrupt, recognized, but answer not acceptable: -4
- Blurt, unrecognized: 0 and team loses chance to answer
- TCQ: 0-20 (partial credit possible)

Challenges to Rules or Scientific Answers

Players (not coaches, alternates or audience members) may request a challenge to a question answer or rules enforcement by raising their hand & being recognized by the Moderator, but only before the Moderator begins reading the next question. The Time Keeper stops the clock, room officials confer and make a ruling. If the ruling is challenged a 2nd time, Head Judges make a ruling. No challenges are permitted on 2nd rulings or TCQs.

Blue Crab Bowl Competition Structure

Round-Robin Matches: Rounds 1, 2 & 3; Matches 1-24

During the morning, in Round-Robin competitions, each team plays all others within its Division. Teams accumulate points based on number of wins, ties and losses (rather than raw scores).

1: James River Division

T1 = Broadwater Academy

T2 = Norfolk Collegiate School

T3 = Albemarle High School

T4 = Chesapeake Bay Governor's School – Warsaw B

2: York River Division

T5 = Grafton High School

T6 = Warwick High School

T7 = Seton School

T8 = Chesapeake Bay Governor's School – Bowling Green

3: Rappahannock River Division

T9 = Catholic High School - A

T10 = Chesapeake Bay Governor's School -Glenns

T11= Governor's School for Science & Technology

T12 = Isle of Wight Academy

4: Potomac River Division

T13 = Catholic High School - B

T14 = Chesapeake Bay Governor's School –
Warsaw A

T15 = Liberty High School

T16 = Bruton High School

Elimination Rounds: Rounds 4, 5, 6 & 7; Matches 25-43

The highest placing teams in each Division are assigned to the A Bracket, the remainder go in the B Bracket for the Elimination Rounds. B teams are eliminated after 1 loss, A teams after 2 losses. During the initial Elimination Rounds, Round 4 (Matches 25-32), A teams play other A teams, B teams play other B teams; four teams are eliminated. Starting with Round 5, remaining match winners play losers in three successive double-elimination series and eight more teams drop out. It is possible for a B team to stay in the running, just as it is possible for an A team to be eliminated performance counts. Note: Teams eliminated in Round 4 will play a required Consolation Match during Round 5 - not for position, but for prizes.

Trophy Rounds:

Rounds 8, 9, 10 & 11; Matches 44-47+ Four teams progress to the trophy rounds, competing for 4th through 1st place.

To check on the progress and position of your team Round 1-7, visit Crab Pot Central in the Watermen's Hall Visitor's Center. Trophy Rounds (Rounds 8-11) take place in the Auditorium.

Key to Blue Crab Bowl Competition Rooms, VIMS Watermen's Hall and Davis Hall

Room	Events				
Watermen's Hall Auditorium	Teams AM meeting; Rounds 1-7, Trophy Rounds 8-11,				
	Awards				
Watermen's Hall Classroom A/B	Competition Room, Rounds 1-7; Lunch seating				
Watermen's Hall Classroom C	Competition Room, Rounds 1-5, & 7 Lunch seating, TCQ				
	Grading Rounds 8-11				
Watermen's Hall, Hargis Library (entry	Competition Room, Rounds 1-5				
on lower level)					
Watermen's Hall Visitor's Center Lobby	Crab Pot Central; team, supporter and VIP check-in; team				
	lunch; scores posted; Chief Scorekeepers; BCB Coordinators				
Davis Hall 101	Competition Room, Rounds 1-5				
Davis Hall 102	Competition Room, Rounds 1-5				
Davis Hall 201	Competition Room, Rounds 1-5				
Davis Hall 202	Officials: TCQ Grading Rounds 1-7; Appeals Room; Head				
	Rules Judge				
Davis Hall 244	Competition Room, Rounds 1-5				
Davis Hall Atrium	Officials: Check-in, AM Meeting, Meals Service				

2025 Blue Crab Bowl Competition & Room Schedule

	N	/latch Ti	me. Ro	om & 1	Teams'	Assign	ments		
		ds 1-7 VIN	-			_		or	
Round Robin	Aud	A/B	С	Lib	Davis 101	Davis 102	Davis 201	Davis 244	Teams Eliminated
	A	В	С	D	E	F	G	н	
9:00 AM	1	2	3	4	5	6	7	8	None
Round 1	T1 v	T3 v	T5 v	T7 v	T9 v	T11 v	T13 v	T15 v	
Matches 1-8	T2	T4	T6	T8	T10	T12	T14	T16	
9:45 AM	9	10	11	12	13	14	15	16	None
Round 2	T13 v	T14 v	T1 v	T2 v	T5 v	T6 v	T9 v	T10 v	
Matches 9-16	T15	T16	T3	T4	T7	T8	T11	T12	
10:30 AM	17	18	19	20	21	22	23	24	None
Round 3	T5 v	T6 v	T9 v	T10 v	T13 v	T14 v	T1 v	T2 v	
Matches 17-24	Т8	T7	T12	T11	T16	T15	T4	Т3	
11:15 AM	Teams: Lu	inch service	in Waterme	n's Lobby,	seating avail	able in nea	arby compe	tition room	S.
	Teams cor	mplete NOSE	3 online surv	vey.	Ü				
	Officials: Lunch service in Davis Hall Atrium								
	Seeding for Elimination Rounds: Crab Pot Central								
Elimination	Aud	A/B	С	Lib	Davis	Davis	Davis	Davis	Teams
		,			101	102	201	244	Eliminated
	E	В	С	D		_			
		_			Α	F	G	Н	
12:00 PM	25	26	27	28	29	30	31	32	L29, L30,
Round 4	A1	A4	A6	A2	B1	B4	В3	B2	L31, L32
Matches 25-32	v A8	v A5	v A3	v A7	v B8	v B5	v B6	v B7	
12:35 PM	33	34	35	36	37	38	C1	C2	L33, L36,
Round 5	W29	W27	W25	W30	W31	W32	L29	L30	L37, L38
Matches 33-38	v L28	v W28	v W26	v L26	v L27	v L25	v L31	v L32	
1:10 PM	39	40							L39, L40
Round 6	W33	W37							
Matches 39-40	v W36	v W38							
1:45 PM	41	42	43						L42, L41
Round 7	W40	W39	W35						
Matches 41-43	v L35	v L34	v W34						
2:20 PM	Break								
	Trophy	Round	ls - begi	in at ~2	:35pm i	in the	Audito	rium	
		hese matche							
	All co	ompetitors a	re asked to	attend all	rounds and	the Award	ls Ceremon	y.	
2:35 PM	All competitors are asked to attend all rounds and the Awards Ceremony. Match 44: W41 v W42						L44 =		
Round 8								4 th Plac	e
3:15 PM	Match 45: W44 v L43 L45 =								
Round 9	3rd Plac						e		
3:55 PM	Match 46: W43 v W45 1st & 2nd Place								
Round 10	If winner of Match 41 wins Match 46, then W46 = 1st Place & L46 = 2nd Place								
Nouliu 10	But, if winner of Match 45 wins Match 46, then W46 & L46 play Match 47								
4:2E DN4	, , ,								
4:35 PM	Match 47: W46 v L46 1st & 2nd Place								

In order to assure quiet in the competition rooms, there can be no talking or loitering in the halls during matches.

ROUND 11

W47 = 1st Place & L47 = 2nd Place

As a demonstration of good sportsmanship, all teams are expected to attend the entire BCB program, including the awards ceremony.





Legend:

A = A Bracket teams & B = B Bracket Teams

Note: Beginning Round 5, A teams may play B teams
G = game = match #

W = winner of match # & L = loser of match #

Blue Crab Bowl 20 for Eliminatio

Round 4		Round
A1		1
A8	G25	W25
		I
<u>A4</u>	G26	W26
A5		
A3		1
A6	G27	W27
A7		
A2	G28	W28

Round 4 Round 5

Round 6







Old Dominion University (ODU) is a competitive, Research 1 university that reviews applications on an individual basis. Each application is carefully read and reviewed by the Office of Admissions staff. While academic performance is a vital factor in the decision-making process, we also take into account athletic and student organization participation, as well as community service. ODU seeks well-rounded students who have a zest for higher education, like to take part in extra-curricular activities, and are interested in exploring career opportunities during their college experience.

The average freshman admitted to Old Dominion ranks in the top third of his or her high school graduating class. A typical candidate has a minimum of 16 high school academic units in English, math, science, foreign language and social studies, and actively participates in school and/or community-based clubs, organizations and athletics.

The Department of Ocean and Earth Sciences (OES), founded at Old Dominion University in 1969, has a mission to acquire and disseminate knowledge of the earth system, including the relationships among the biological, chemical, geological and physical components of our planet. The Department has expertise in ocean margin processes, coastal system processes and coupled quantitative models. OES offers Bachelor of Science and Master of Science degrees in Ocean and Earth Sciences and a Doctor of Philosophy in Oceanography. Within the BS, the department offers tracks in Environmental Science, Marine Science Technology, Earth Science Education, and others.

The Commonwealth Center for Coastal Physical Oceanography, designated as a Center for Excellence by the State Council of Higher Education for Virginia, broadens the OES Department's ability to facilitate innovative research on the coastal ocean and to provide educational experiences for both students and the public at large.

Old Dominion University's Regional Higher Education Centers provide accessible, high quality education in three locations within greater Hampton Roads Peninsula. They support high-demand and critical shortage professions with select graduate and undergraduate degree, certificate and continuing education programs offered in traditional, Distance Learning, and hybrid formats. The Virginia Beach Center's location makes it convenient for students pursuing baccalaureate degrees, as well as for working adults pursuing professional degrees, certificates, and continuing education programs.

For more information, visit these web sites:

www.odu.edu/vabeach www.odu.edu/oes www.ccpo.odu.edu/





VIRGINIA INSTITUTE OF MARINE SCIENCE

Chartered in 1940, the Virginia Institute of Marine Science (VIMS) is a graduate school of **William & Mary**. As one of the largest marine research and education centers in the United States, VIMS has a three-part mission to: conduct interdisciplinary research in coastal ocean and estuarine science; educate students and citizens; and provide advisory service to policy makers, industry, and the public.

The **Batten School of Coastal and Marine Sciences** is the graduate education component of VIMS. Recognized worldwide for expertise in coastal marine science, VIMS' faculty of over 50 includes representatives from numerous disciplines, including: biological, chemical, and physical oceanography; fisheries science; genetics; immunology; toxicology; wetlands science; aquatic disease; and computational modeling. The current student body of 85 is approximately half women, and includes students from around the world. The Batten School's purpose is to provide quality interdisciplinary education and research opportunities for students pursuing advanced degrees in marine science. Students participate in comprehensive coursework and interact closely with faculty involved in active research. VIMS currently confers Masters of Arts, Masters of Science and Doctoral degrees. Starting in Fall 2025, VIMS will offer an undergraduate Marine Science major.

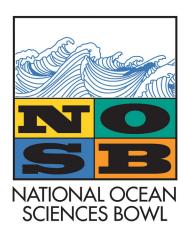
The main campus in Gloucester Point includes sophisticated laboratories for advanced studies in several disciplines of marine science. A fisheries science building includes teaching and research labs, and a sample-processing facility. Aquaculture genetics and grow-out facilities are located on the main campus, as well as at a satellite center. VIMS maintains a field station on Virginia's Eastern Shore which supports research and education with its laboratories, hatchery and other facilities. The Institute offers workshops and web-based resources for teachers, as well as public education opportunities including lecture series, open house and special events, public tours.

For more information, visit these websites:

http://www.wm.edu/ http://www.vims.edu/



Blue Crab Bowl Regional Sponsors

















Blue Crab Bowl: Winners 1998-2024, continued

2011 — 14th Annual

Bishop Sullivan Catholic High

School, Virginia Beach

2010 - 13th Annual Bishop Sullivan Catholic High School, Virginia Beach



2013 — 16th Annual Bishop Sullivan Catholic High School, Virginia Beach

2016 — 19th Annual

Bishop Sullivan Catholic High

School, Virginia Beach

2019 - 22nd Annual

Norfolk Collegiate,

Norfolk





2014 — 17th Annual Bishop Sullivan Catholic High



2017 - 20th Annual Bishop Sullivan Catholic High



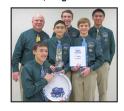
2020 - 23rd Annual Catholic High School, Virginia Beach



2012 - 15th Annual Bishop Sullivan Catholic High School, Virginia Beach



2015 - 18th Annual Bishop Sullivan Catholic High School, Virginia Beach



2018 - 21st Annual Seton School - Team A, Manassas



2021 - 24th Annual Chesapeake Bay Governor's School - Glenns Campus

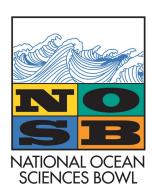


2022 - 25th Annual Chesapeake Bay Governor's



2024 - 26th Annual Broadwater Academy, Exmore





2025 Sponsors





THE CURTIS & EDITH MUNSON FOUNDATION





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