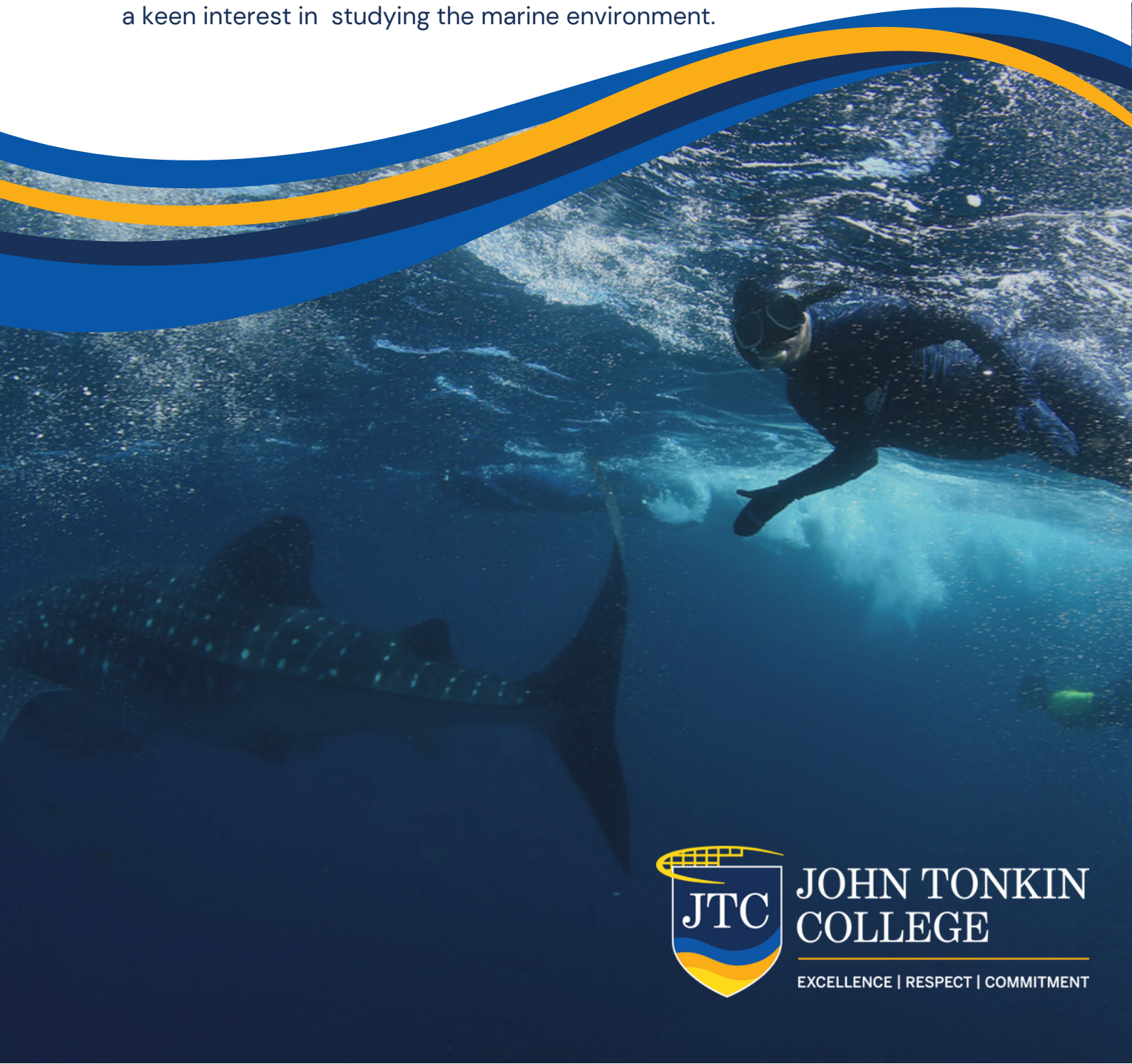


SURF SCIENCE SPECIALIST PROGRAM

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A science and outdoor education specialist program, endorsed by the Education Department of Western Australia, for students in year 7 to 9 at JTC who have a keen interest in studying the marine environment.



JOHN TONKIN
COLLEGE

EXCELLENCE | RESPECT | COMMITMENT



SELECTION PROCESS

An interview process is used in determining student suitability for the program.

Initial application forms can be collected from John Tonkin College – Tindale Campus.

- ✓ Achievement with at least C grade achievement in all Subjects. Higher grades will be best suited for the program (confirmed by final report)
- ✓ NAPLAN results reflecting achievement at standard. Higher NAPLAN results will be best suited for the program.
- ✓ Strong records of positive and appropriate behaviour.
- ✓ Regular attendance.
- ✓ Leadership qualities such as Student Councillor, Faction Captain and Head Boy/Girl.
- ✓ References from staff.
- ✓ Strong interest and involvement in water based, environmental and/or local community activities
- ✓ Satisfactory swimming ability.

SURF SCIENCE

Students in the Surf Science program have a keen interest in outdoor recreation, environmental conservation and contributing to the community.

This Department of Education approved Surf Science Specialist Program facilitates the studies of marine science and outdoor education for students in year 7 to 9 at John Tonkin College. The program accommodates an academically challenging pathway, whilst also nurturing students who may already have a pro-active interest in the outdoors and marine environment. Students studying Surf Science may be curious in pursuing an environmental-science career pathway.

Students within the Surf Science Specialist Program are privileged to unique learning opportunities and facilities throughout our college and within our wider community.

Our students have access to well-equipped science learning areas and aquaculture laboratories, IT ready classrooms and also have an assigned school bus which supports transport for ongoing marine and coastal field work.

Additionally, John Tonkin College has a purpose-built Marine Centre in Dawesville, which provides our students with exclusive access to an off-site classroom and learning area.

John Tonkin College Surf Science Specialist Program students are offered a variety of skilled teaching within each of the curriculum disciplines and will enjoy the support of many professional and community based partnerships and partner organisations, which include;

- Coast Care WA
- St John's Ambulance
- Mandurah Make Place
- Eco Ocean
- AQUA
- Dept of Fisheries and Wildlife
- Curtin University
- Murdoch University
- City of Mandurah
- Peel Harvey Catchment Council
- Mandurah Environment and Heritage Group
- Tangaroa Blue

Aquaculture Centre - Tindale Campus

An all new JTC Aquaculture Centre is scheduled to be built May 2023.



YEAR 7



SCIENCE

- Water analysis skills and fish tank maintenance
- Observations and monitoring of local waterways
- Water pollution from households and the impact on the Estuary
- Introduced species and impacts on biodiversity (or local wildlife)
- Physics of watersports

COMMUNITY INITIATIVES

- Tangaroa Blue marine debris initiative
- Estuary Guardians
- Clean-Up Australia
- Mandurah Dolphin Research Project
- Coastal Waste Warriors
- City of Mandurah Youth Programs
- Mussel Farming (2021/2022)

QUALIFICATIONS

- First Aid Certificate



PHYSICAL EDUCATION

Swimming, Surfing, Body Boarding, Stand Up Paddle Boarding, Kayaking, Snorkelling, Camping

CAMPS

- JTC Marine Centre
- Ern Halliday Camp (Hillarys)
- Fisheries Hillarys



MUSSEL PROJECT

Students from the specialist Surf Science Program have partnered with 130 local volunteers to become 'Shellfish Gardeners' on a mussel farming initiative supported by the Alcoa Foundation, The Nature Conservancy, Peel-Harvey Catchment Council and Greening Australia.

Supported by Richard Campbell and Project Coordinator Theo Kearing, JTC students have helped to grow 50,000 mussels or oysters in specially designed 'gardens' and monitor and maintain the shellfish from juveniles to adults. The adult shellfish will be used to help turn a new reef base into living shellfish reefs.

Once established, the shellfish reefs will enhance local fish stocks, help improve water quality and boost the local economy by attracting fishing and eco-tourism.

“ Once established, the shellfish reefs will enhance local fish stocks, help improve water quality and boost the local economy by attracting fishing and eco-tourism. ”



REEL-IN-IN BINS

The Parks and Wildlife Service Reel It In, fishing line bin project was introduced to help reduce the impact of discarded fishing line and tackle on dolphins, water birds and other animals.

The introduction of these bins to Mandurah was a community initiative by our Surf Science Specialist Program students.

These bins provide both awareness and a convenient option for local fishing enthusiasts and active community members to place stray fishing line in one of our secure bins, protecting our wildlife from the dangers of becoming entangled.

Our Surf Science students routinely check these bins and empty them as part of our ongoing support for the Reel it In Project.

OUR PARTNERS

Estuary Guardians Mandurah - City of Mandurah - Keep Australia Beautiful WA - River Guardians



YEAR 8



SCIENCE

- Introduction Aquaculture
- Observation and monitoring of local waterways
- Human impact and influence on the estuary
- Land clearing and the impact of biodiversity (local wildlife)
- Coastal erosion and rock formation
- Impacts of fracking on coastal ecosystems
- Physics of watersports

COMMUNITY INITIATIVES

- Tangaroa Blue marine debris initiative
- Estuary Guardians
- Clean-Up Australia
- Bunbury Dolphin Discovery
- Coastal Waste Warriors
- City of Mandurah Youth Programs
- Mandurah Cruises Dolphin Research project

QUALIFICATIONS

- Royal Life Saving Society of WA Bronze Star Award



PHYSICAL EDUCATION

Aquatic Rescue, Swimming, Surfing, Advanced Stand Up Paddle Boarding, Cycling, Sailing, Snorkelling, Camp Planning

CAMPS

- Bunbury & Busselton - Dolphin Research
- Rottnest Island - Ecosystems

JTC MARINE CENTRE



Located on the south side of the Dawesville Cut, our Marine Centre is a one-of-a-kind for public schools in Western Australia.

1 THISBE DRIVE DAWESVILLE WA 6211 Phone: (08) 9582 2572

YEAR 9



SCIENCE

- Aquaculture and aquaponics
- Observation and monitoring of local waterways
- Human impact and influence on the estuary
- Bushfires and the impacts on biodiversity (local wildlife)
- Ocean currents and coastal erosion
- Understanding noise pollution and its impacts on marine life
- Physics of watersports

COMMUNITY INITIATIVES

- Community initiatives carry on from Y7 and 8
- Reel-It-In Fishing Line Bins Peel Region
- DBCA Volunteering in Monkey Mia Dolphin Research Project

QUALIFICATIONS

- Royal Life Saving Society of WA Bronze Medallion
- Recreational Skippers Ticket
- Duke of Edinburgh Award - Bronze



PHYSICAL EDUCATION

Power boating, surfing, abseiling, snorkeling, Advanced Stand Up Paddle Board, Kayaking, Canoeing

CAMPS

- Margaret River
- Shark Bay - Volunteering with Department of Biodiversity, Conservation and Attractions
- Exmouth (biennial - optional)

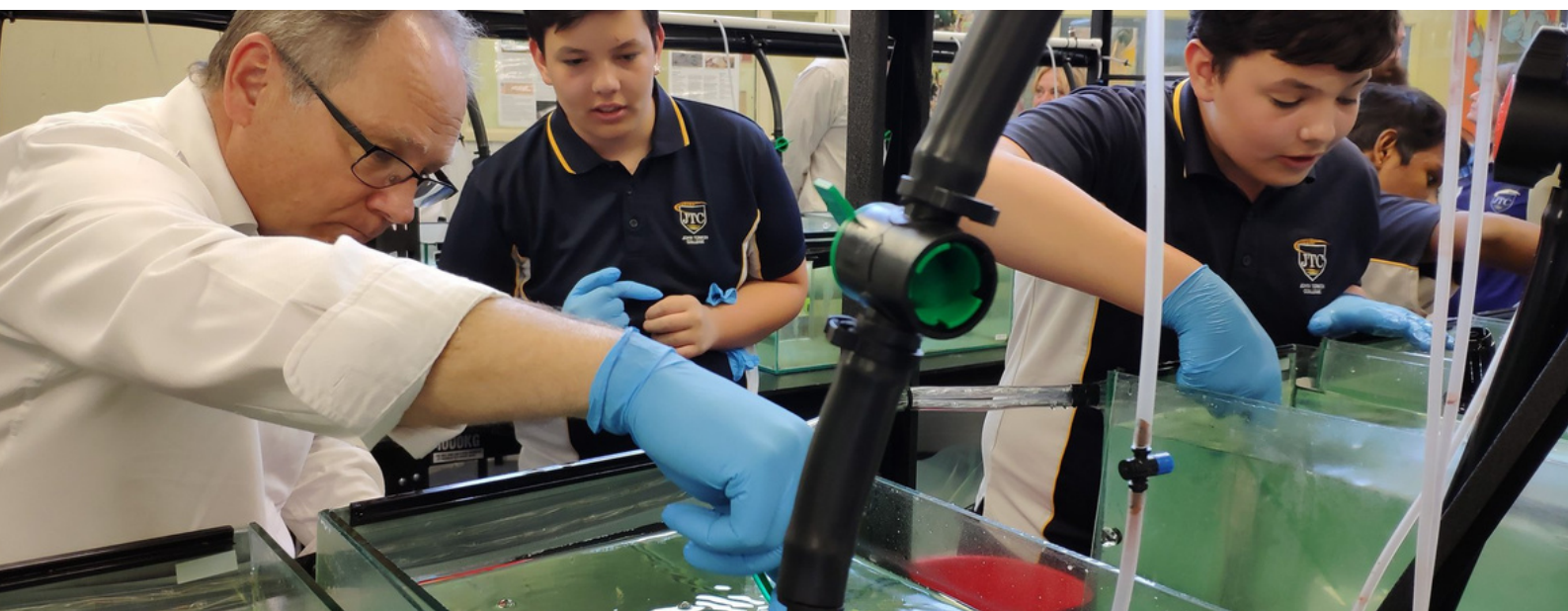
Did you know that Black Bream complete their whole life cycle in the estuary in which they are born? Their home is their home forever, therefore it is important that we make sure they have a sustainable habitat in the Peel Harvey Estuary.

The Black Bream Project is enhancing the stocks of black bream in our local waterways. The project aims to protect the fish from threats in their early life stages through an aquaculture program which was undertaken by Murdoch University and John Tonkin College with support from Peel-Harvey Catchment Council. Over the school term, our Surf Science Specialist Program students cared for the Bream to ensure they survived their critical life stages which has involved feeding them and making sure the water quality is suitable by conducting routine water quality checks.

Last year, approximately 500 baby bream were released into the Murray River by our students which was a great success which we hope to continue into the future.



BLACK BREAM PROJECT



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Unfortunately over time, black bream have been exposed to a number of environmental threats which has caused their stocks to decline. Therefore, it is hoped this project has given a boost to the existing population so we can enjoy these species for years to come.

*Peel Harvey
Catchment Council*

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Fostering an optimistic future by empowering our college community
to succeed.

Tindale Campus

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