



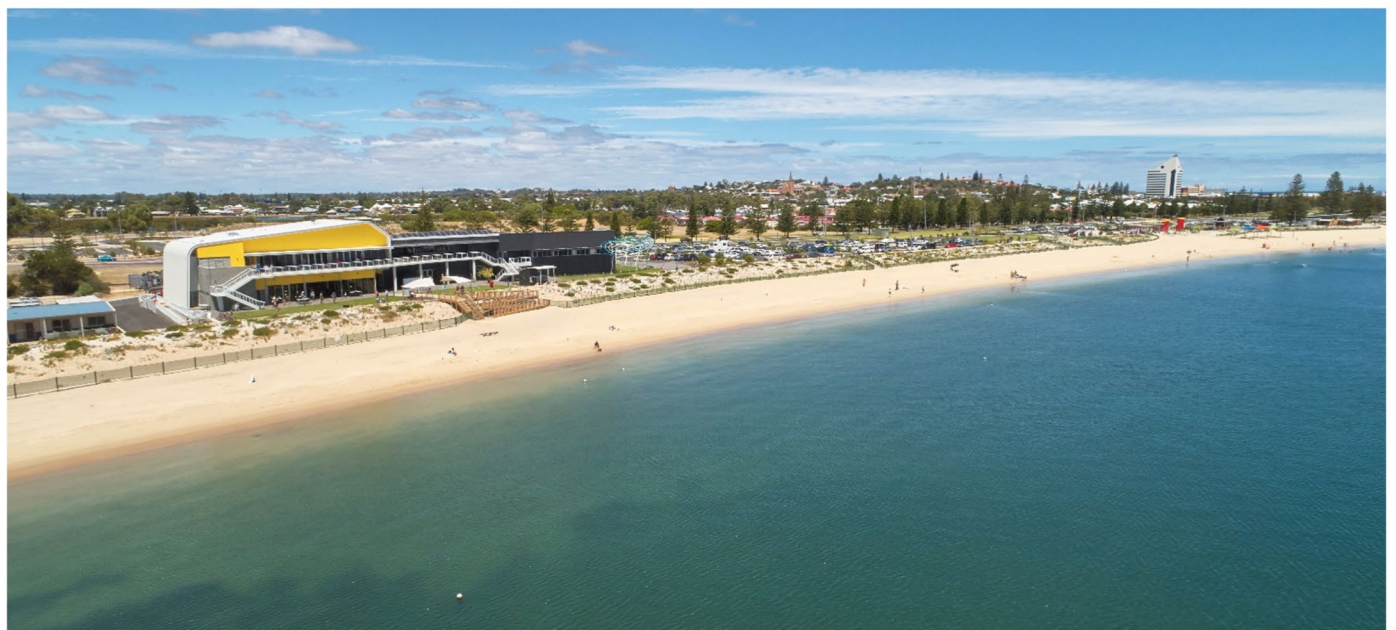
EDUCATION BROCHURE

INCURSIONS, EXCURSIONS & FIELD TRIPS

WELCOME TO OUR MARINE WORLD

At the Dolphin Discovery Centre (DDC) we provide educational activities and field-based learning in marine and environmental studies. These activities include both incursions and excursions and the content within each has been designed to not only be interactive, entertaining and educational, but also to focus on Science and Biology as described within the Western Australian Curriculum, Schools Curriculum and Standards Authority (SCSA) materials (v8.1). Within the SCSA model, our program content for all school years covers the science strands of Science Understanding, Science as a Human Endeavour and Science Inquiry Skills inclusive of Cross Curriculum Priorities such as Sustainability and Aboriginal Histories and Cultures.

Located 90 minutes south of Perth on the foreshore of Koombana Bay in Bunbury, the Centre is surrounded by a diverse range of marine and coastal habitats including the Indian Ocean, Koombana Bay, the Leschenault Estuary, the Leschenault Inlet, and the white mangrove colony. Each habitat represents a unique natural resource and an ideal opportunity to learn and have fun.





EDUCATION OPTIONS – Pre-primary to Year 6

	Years	Excursion/Activity	Duration (min)	Cost Per Student	Location
Activity 1	up to year 2	See Under the Sea	60 -90	10.00	DDC
Activity 2	up to year 2	Dolphin Adventures	60-90	10.00	DDC and Beach
Activity 3	up to year 2	Turtle Tales	60-90	10.00	DDC
Activity 4	Years 3-6	The Sea and Me	90	15.00	DDC
Activity 5	Years 3-6	Discover Dolphins	90	15.00	DDC and Beach
Activity 6	Years 3-6	Mangroves – What’s in the Mud?	90	15.00	DDC and Mangroves
Activity 7	Years 3-6	A Turtles Journey	90	15.00	DDC
Activity 8	Years 3-6	Beach Detectives: Mission Microplastic	90	15.00	DDC and Beach
Incursion Programs	All Years	Bring the Sea to Me	90	15.00	Your School
	Year 3-6	Mission Microplastic	90	15.00	Your School
Other Options		School Staff Information Visit	15-30	Free	DDC
		Staff Professional Development Workshop	120	Group Price	DDC





EDUCATION OPTIONS – Years 7-12

	Years	Excursion/Activity	Duration (min)	Cost Per Student	Location
Activity 1	Years 7-12	Dolphin Dynamics	90	15.00	DDC and Beach
Activity 2	Years 7-12	The Marine World	90	15.00	DDC
Activity 3	Years 7-12	Turtles – Rescue, Rehabilitate, Release	90	15.00	DDC
Activity 4	Years 7-12	Mangrove Mysteries – Exploring Coastal Eco-systems.	90	15.00	DDC and Mangroves
Activity 5	Years 7-12	Fisheries Science: Herring Dissection	120	20.00	DDC
Activity 6	Years 7-12	Rescuing Our Reefs	90	15.00	DDC
Activity 7	Years 7-12	Cultivating Coral	120	20.00	DDC
Activity 8	Years 7-12	Symbiotic Secrets - Exploring Nature's Partnerships	90	15.00	DDC
Activity 9	Years 7-12	Plastic Pursuit – Tackling Ocean Pollution	90	15.00	DDC and Beach
Incursion Programs	Years 7-12	The Marine World	90	15.00	Your School
	Years 7-12	Fisheries Science: Herring Dissection	120	20.00	Your School
	Years 7-12	Rescuing Our Reefs	90	15.00	Your School
	Years 7-12	Symbiotic Secrets – Exploring Natures Partnerships	90	15.00	Your School
	Years 7-12	Plastic Pursuit – Tackling Ocean Pollution	90	15.00	Your School
Boat Based Activity	Years 7-12	Boats, Biology & Bay	90	35.00	DDC, Beach and Boat
Other Options		Long-term Collaboration Projects with Specific Classes/ Programs	Variable	Group Price	DDC, Beach, Mangroves, Boat, Your School
		School Staff Information Visit	15-30	Free	DDC
		Staff Professional Development Workshop	60-120	Group Price	DDC



SEA UNDER THE SEA

Years:	Up to year 2
Duration:	60-90 minutes
Min/Max in each group:	15 min/60 max
Activity Location:	DDC



In this fun and interactive program students will observe and investigate marine animals in a range of different habitats. They will also be introduced to the concept of human impact such as pollution and the importance of looking after our marine environment to protect the animals they see and feel during the excursion.

Students will:

- Explore a variety of marine animals and habitats found in the Interpretive Centre and appreciate how and why they look / behave differently. Learn more about marine animals through games, discussions, and role play activities.
- Learn more about endangered and threatened species and how we can protect them through the Turtle Rehabilitation Project (seasonal).

Key Learning Area:	Science
Other Learning Areas:	Arts, Humanities and Social Sciences
Cross Curriculum Priorities:	Sustainability

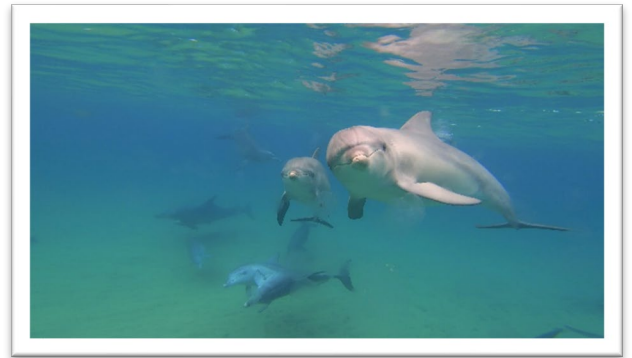
Major Strands	Sub-strands	Content Descriptions		
		Year P	Year 1	Year 2
Science Understanding	Biological sciences	ACSSU002	ACSSU017 ACSSU211	ACSSU030
	Chemical sciences	N/A	N/A	N/A
	Earth and space sciences	N/A	N/A	N/A
	Physical sciences	ACSSU005	N/A	N/A
Science as a Human Endeavour	Nature and development of science	ACSHE013	ACSHE021	ACSHE034
	Use and influence of science	N/A	ACSHE022	ACSHE035
Science inquiry skills	Questioning and predicting	AC SIS014	AC SIS024	AC SIS037
	Planning and conducting	AC SIS011	AC SIS025	AC SIS038
	Processing and analysing data and information	AC SIS233	N/A	N/A
	Evaluating	N/A	AC SIS213	AC SIS041
	Communicating	AC SIS012	AC SIS029	AC SIS042

This table represents content descriptions within the Australian Curriculum that can/are achieved within this program. If specific descriptions within each strand need to be met during the excursion we encourage you as the teacher to inform us prior to the excursion to ensure we can meet your student's needs.



DOLPHIN ADVENTURES

Years:	Up to year 2
Duration:	60-90 minutes
Min/Max in each group:	15 min/60 max
Activity Location:	DDC and Beach



Koombana Bay is home to over 140 Indo-Pacific Bottlenose Dolphins, in this interactive program students will explore the life and habitat of these local dolphins. Students will be introduced to dolphin anatomy, behaviours and the concept of human impact, such as pollution, on their environment.

Students will:

- Develop an understanding of dolphins and their habitat including the unique adaptations that allow them to survive in the ocean through games, discussions, cinema and role play activities.
- Participate in a beach treasure hunt for natural and processed materials on the shoreline.

Key Learning Area:	Science
Other Learning Areas:	Arts, Humanities and Social Sciences
Cross Curriculum Priorities:	Sustainability

Major Strands	Sub-strands	Content Descriptions		
		Year P	Year 1	Year 2
Science Understanding	Biological sciences	ACSSU002	ACSSU017 ACSSU211	ACSSU030
	Chemical sciences	N/A	N/A	N/A
	Earth and space sciences	ACSSU004	N/A	N/A
	Physical sciences	ACSSU005	N/A	N/A
Science as a Human Endeavour	Nature and development of science	ACSHE013	ACSHE021	ACSHE034
	Use and influence of science	N/A	ACSHE022	ACSHE035
Science inquiry skills	Questioning and predicting	AC SIS014	AC SIS024	AC SIS037
	Planning and conducting	AC SIS011	AC SIS025	AC SIS038
	Processing and analysing data and information	AC SIS233	N/A	N/A
	Evaluating	N/A	AC SIS213	AC SIS041
	Communicating	AC SIS012	AC SIS029	AC SIS042

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TURTLE TALES (SEASONAL - USUALLY JUNE - FEBRUARY)

Years:	Up to year 2
Duration:	60-90 minutes
Min/Max in each group:	15 min/60 max
Activity Location:	DDC



Students will learn about endangered and threatened species through our Turtle Rehabilitation Program. They will be introduced to Loggerhead Turtles, exploring their life cycle, habitat and the threats these animals face. Students will also learn how to protect marine environments so that the animals they see on the excursion along with other endangered and threatened species can survive.

Students will:

- Develop an understanding of endangered and threatened species through observations, games, discussions, and role play activities.
- Discuss the importance of protecting marine environments to ensure the survival of all marine animals.

Key Learning Area:	Science
Other Learning Areas:	Arts, Humanities and Social Sciences
Cross Curriculum Priorities:	Sustainability, Aboriginal histories and cultures

Major Strands	Sub-strands	Content Descriptions		
		Year P	Year 1	Year 2
Science Understanding	Biological sciences	ACSSU002	ACSSU017 ACSSU211	ACSSU030
	Chemical sciences	N/A	N/A	N/A
	Earth and space sciences	ACSSU004	N/A	N/A
	Physical sciences	ACSSU005	N/A	N/A
Science as a Human Endeavour	Nature and development of science	ACSHE013	ACSHE021	ACSHE034
	Use and influence of science	N/A	ACSHE022	ACSHE035
Science inquiry skills	Questioning and predicting	AC SIS014	AC SIS024	AC SIS037
	Planning and conducting	AC SIS011	AC SIS025	AC SIS038
	Processing and analysing data and information	AC SIS233	N/A	N/A
	Evaluating	N/A	AC SIS213	AC SIS041
	Communicating	AC SIS012	AC SIS029	AC SIS042

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THE SEA AND ME

Years:	Years 3-6
Duration:	90 minutes
Min/Max in each group:	15 min/45 max
Activity Location:	DDC



Students will observe marine animals in a range of different habitats. They will be introduced to the ecosystems and food chains that characterize these environments, as well as the life cycles of some of the species they encounter. The concept of human impact such as pollution and the importance of looking after our marine environment to protect these animals will also be discussed.

Students will:

- Explore a variety of marine animals and habitats found in the Interpretive Centre and appreciate how these animals live together to form an eco-system. Learn more about marine animals through games, discussions, cinema and role play activities.
- Participate in a beach treasure hunt for natural and processed materials on the shoreline.
- Learn more about endangered and threatened species and how we can protect them through the Turtle Rehabilitation Project (seasonal).

Key Learning Area:	Science
Other Learning Areas:	Arts, Humanities and Social Sciences
Cross Curriculum Priorities:	Sustainability, Aboriginal histories and cultures

Major Strands	Sub-strands	Content Descriptions			
		Year 3	Year 4	Year 5	Year 6
Science Understanding	Biological sciences	ACSSU044	ACSSU072 ACSSU073	ACSSU043	ACSSU094
	Chemical sciences	N/A	N/A	N/A	N/A
	Earth and space sciences	N/A	ACSSU075	N/A	N/A
	Physical sciences	N/A	N/A	N/A	N/A
Science as a Human Endeavour	Nature and development of science	ACSHE050	ACSHE061	N/A	N/A
	Use and influence of science	ACSHE051	ACSHE062	ACSHE083	ACSHE100
Science inquiry skills	Questioning and predicting	AC SIS053	AC SIS064	AC SIS231	AC SIS232
	Planning and conducting	N/A	N/A	AC SIS086	AC SIS103
	Processing and analysing data and information	N/A	N/A	N/A	N/A
	Evaluating	N/A	N/A	N/A	N/A
	Communicating	AC SIS060	AC SIS071	AC SIS093	AC SIS110

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DISCOVER DOLPHINS

Years:	Years 3-6
Duration:	90 minutes
Min/Max in each group:	15 min/45 max
Activity Location:	DDC and Beach



Students will investigate why over 140 Indo-Pacific Bottlenose Dolphins call Koombana Bay their home. They will be introduced to dolphin anatomy, life cycles and behaviours, while also exploring both the human impact and natural changes that influence their environment. Additionally, students will identify actionable ways to help protect these dolphins and their habitat.

Students will:

- Develop an understanding of dolphins and their habitat including the unique adaptations that allow them to survive in the ocean through games, discussions, cinema and role play activities.
- Learn about marine food chains and determine where dolphins are positioned.
- Participate in a beach treasure hunt for natural and processed materials on the shoreline.

Key Learning Area:	Science
Other Learning Areas:	Arts, Humanities and Social Sciences
Cross Curriculum Priorities:	Sustainability, Aboriginal histories and cultures

Major Strand	Sub-strands	Content Descriptions			
		Year 3	Year 4	Year 5	Year 6
Science Understanding	Biological sciences	ACSSU044	ACSSU072 ACSSU073	ACSSU043	ACSSU094
	Chemical sciences	N/A	N/A	N/A	N/A
	Earth and space sciences	N/A	ACSSU075	N/A	N/A
	Physical sciences	N/A	N/A	N/A	N/A
Science as a Human Endeavour	Nature and development of science	ACSHE050	ACSHE061	N/A	N/A
	Use and influence of science	ACSHE051	ACSHE062	ACSHE083	ACSHE100
Science inquiry skills	Questioning and predicting	AC SIS053	AC SIS064	AC SIS231	AC SIS232
	Planning and conducting	N/A	N/A	AC SIS086	AC SIS103
	Processing and analysing data and information	N/A	N/A	N/A	N/A
	Evaluating	N/A	N/A	N/A	N/A
	Communicating	AC SIS060	AC SIS071	AC SIS093	AC SIS110

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MANGROVES - WHAT'S IN THE MUD?

Years: Years 3-6
Duration: 90 minutes
Min/Max in each group: 15min/30max
Activity Location: DDC and Mangrove Cove



During this activity students will discover the unique biology and ecology of the mangrove habitat found adjacent to the Centre and appreciate the critical role it plays to support and sustain the entire local marine eco-system. An important component of this activity will also be to evaluate human impacts on the local mangrove environment, recognize the importance of conservation and to identify additional ways we can protect them for future conservation. Critical topics of biodiversity and food webs will also be explained and demonstrated.

Students will:

- Explore the mangrove habitat along an exclusive wooden boardwalk. Here they will observe a diversity of animals and plants that exist within and/or depend upon the mangrove system and discuss changes and adaptations based on tidal movements and seasons.
- Use each of their senses (see, touch, hear, smell and taste) to experience this incredible species (*Avicennia marina*) that truly represents one of nature's finest examples of adaptation.
- Participate in a hands-on catch and release investigation activity requiring them to collect, organize and interpret their data and identify animals that live within the mangrove environment.

Key Learning Area: Science
Other Learning Areas: Arts, Humanities and Social Sciences
Cross Curriculum Priorities: Sustainability, Aboriginal histories and cultures

Major Strands	Sub-strands	Content Descriptions			
		Year 3	Year 4	Year 5	Year 6
Science Understanding	Biological sciences	ACSSU044	ACSSU072 ACSSU073	ACSSU043	ACSSU094
	Chemical sciences	N/A	N/A	N/A	N/A
	Earth and space sciences	N/A	ACSSU075	N/A	ACSSU096
	Physical sciences	N/A	N/A	N/A	N/A
Science as a Human Endeavour	Nature and development of science	ACSHE050	ACSHE061	N/A	N/A
	Use and influence of science	ACSHE051	ACSHE062	ACSHE083	ACSHE100
Science inquiry skills	Questioning and predicting	AC SIS053	AC SIS064	AC SIS231	AC SIS232
	Planning and conducting	AC SIS054	AC SIS065	AC SIS086	AC SIS103
	Processing and analysing data and information	AC SIS057	AC SIS068	AC SIS090	AC SIS107
	Evaluating	AC SIS058	AC SIS069	AC SIS091	AC SIS108
	Communicating	AC SIS060	AC SIS071	AC SIS093	AC SIS110

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A TURTLES JOURNEY (SEASONAL - USUALLY JUNE-FEBRUARY)

Years: Years 3-6
Duration: 90 minutes
Min/Max in each group: 15 min/45 max
Activity Location: DDC



Through our Turtle Rehabilitation Program, students will explore endangered and threatened species, with a focus on Loggerhead Turtles. They will be introduced to the Loggerhead turtles' life cycle, habitat and journey to the Dolphin Discovery Centre. An important component of this activity will be to evaluate human impacts on the marine environment and the consequences this has for endangered and threatened species.

Students will:

- Develop an understanding of endangered and threatened species, especially the Loggerhead Turtle, through observations, games, discussions, and role play activities.
- Observe injuries sustained by the rehabilitation turtles and discuss possible causes.
- Discuss the importance of protecting marine environments and ways in which we can ensure the survival of endangered and threatened species.

Key Learning Area: Science
Other Learning Areas: Arts, Humanities and Social Sciences
Cross Curriculum Priorities: Sustainability, Aboriginal histories and cultures

Major Learning Area	Sub-strands	Content Descriptions			
		Year 3	Year 4	Year 5	Year 6
Science Understanding	Biological sciences	ACSSU044	ACSSU072 ACSSU073	ACSSU043	ACSSU094
	Chemical sciences	N/A	N/A	N/A	N/A
	Earth and space sciences	N/A	ACSSU075	N/A	N/A
	Physical sciences	N/A	N/A	N/A	N/A
Science as a Human Endeavour	Nature and development of science	ACSHE050	ACSHE061	N/A	N/A
	Use and influence of science	ACSHE051	ACSHE062	ACSHE083	ACSHE100
Science inquiry skills	Questioning and predicting	AC SIS053	AC SIS064	AC SIS231	AC SIS232
	Planning and conducting	N/A	N/A	AC SIS086	AC SIS103
	Processing and analysing data and information	N/A	N/A	N/A	N/A
	Evaluating	N/A	N/A	N/A	N/A
	Communicating	AC SIS060	AC SIS071	AC SIS093	AC SIS110

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BEACH DETECTIVES: MISSION MICROPLASTIC

Years: Years 3-6
Duration: 90 minutes
Min/Max in each group: 15 min/45 max
Activity Location: DDC and Beach



In this program, students will explore how plastic pollution makes its way into the ocean and the resulting effects on the marine life, the environment and human health. They will discuss strategies to minimise plastic waste and address the plastic that has already accumulated in the ocean.

Students will:

- Investigate the causes of plastic pollution in the ocean and the consequences for marine life through games, video, and discussion.
- Observe the impact of plastic pollution on marine turtles and dolphins.
- Participate in a hands-on investigation to determine the quantity of microplastics present in Koombana Bay beach.

Key Learning Area: Science
Other Learning Areas: Arts, Humanities and Social Sciences
Cross Curriculum Priorities: Sustainability

Major Strands	Sub-strands	Content Descriptions			
		Year 3	Year 4	Year 5	Year 6
Science Understanding	Biological sciences	ACSSU044	ACSSU073	ACSSU043	ACSSU094
	Chemical sciences	N/A	N/A	N/A	N/A
	Earth and space sciences	N/A	ACSSU075	N/A	ACSSU096
	Physical sciences	N/A	N/A	N/A	N/A
Science as a Human Endeavour	Nature and development of science	ACSHE050	ACSHE061	N/A	N/A
	Use and influence of science	ACSHE051	ACSHE062	ACSHE083	ACSHE100
Science inquiry skills	Questioning and predicting	AC SIS053	AC SIS064	AC SIS231	AC SIS232
	Planning and conducting	AC SIS054	AC SIS065	AC SIS086	AC SIS103
	Processing and analysing data and information	AC SIS057	AC SIS068	AC SIS090	AC SIS107
	Evaluating	AC SIS058	AC SIS069	AC SIS091	AC SIS108
	Communicating	AC SIS060	AC SIS071	AC SIS093	AC SIS110

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DOLPHIN DYNAMICS

Years: Years 7-12
Duration: 90 minutes
Min/Max in each group: 15min/30max
Activity Location: DDC and the Beach



This activity will introduce the local Bottlenose dolphins and how the environment they live in shapes their biology and ecology. There is a focus on species interdependencies that exist in the area and how both anthropogenic and natural changes have impacted the dolphins and their local marine environment. This knowledge will re-enforce the importance of the research programs currently conducted here at the Centre and provide the students with the ability to identify variables that influence natural processes. Students will also be asked to formulate management strategies that promote conservation and sustainability.

Students will:

- Develop an understanding of dolphins and other marine life and their classification through games, digital animation and cinema presentations, aquarium displays and preserved specimens.
- Explore the coastal marine environment located adjacent to the Centre and investigate the biodiversity and abundance of local marine flora and fauna.
- Learn more about local industry, urban development and how they have shaped Koombana Bay and the Leschenault Estuary.

Key Learning Area: Science
Other Learning Areas: Arts, Humanities and Social Sciences
Cross Curriculum Priorities: Sustainability, Aboriginal histories and cultures

Major Strands	Sub-strands	Content Descriptions			
		Year 7	Year 8	Year 9	Year 10
Science Understanding	Biological sciences	ACUSS111 ACUSS112	ACSSU150	ACSSU175 ACSSU176	ACSSU184 ACSSU185
	Chemical sciences	N/A	N/A	N/A	N/A
	Earth and space sciences	ACSSU222	N/A	N/A	N/A
	Physical sciences	N/A	N/A	N/A	N/A
Science as a Human Endeavour	Nature and development of science	ACSHE119	ACSHE226	N/A	N/A
	Use and influence of science	ACSHE121	ACSHE136	ACSHE228	ACSHE230
Science inquiry skills	Questioning and predicting	AC SIS124	AC SIS139	AC SIS164	AC SIS198
	Planning and conducting	N/A	N/A	N/A	N/A
	Processing and analysing data and information	N/A	N/A	N/A	N/A
	Evaluating	N/A	N/A	N/A	N/A
	Communicating	AC SIS133	AC SIS148	AC SIS174	AC SIS208

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THE MARINE WORLD

Years:	Years 7-12
Duration:	90 minutes
Min/Max in each group:	15min/30max
Activity Location:	DDC



This program will take a closer look at the adaptations and specialization marine animals have made to live in the Marine World. They will also gain a solid understanding of the threats facing our marine life and what can be done to manage both the threats and the animals themselves.

Students will:

- Develop an understanding of dolphins and other marine life through games, discussions, digital animation and cinema.
- Participate in the weighing, feeding and measuring of endangered Loggerhead Turtles as part of the Centre's turtle rehabilitation program (seasonal).
- Complete a worksheet (optional) on the specializations and adaptations exhibited by the marine life found in aquariums on site at the DDC.

Key Learning Area:	Science
Other Learning Areas:	Arts, Humanities and Social Sciences
Cross Curriculum Priorities:	Sustainability

Major Strands	Sub-strands	Content Descriptions			
		Year 7	Year 8	Year 9	Year 10
Science Understanding	Biological sciences	ACUSS111 ACSSU112	ACSSU150	ACSSU175 ACSSU176	ACSSU184 ACSSU185
	Chemical sciences	N/A	N/A	N/A	N/A
	Earth and space sciences	ACSSU222	N/A	N/A	N/A
	Physical sciences	N/A	N/A	N/A	N/A
Science as a Human Endeavour	Nature and development of science	ACSHE119	ACSHE226	N/A	N/A
	Use and influence of science	ACSHE121	ACSHE136	ACSHE228	ACSHE230
Science inquiry skills	Questioning and predicting	AC SIS124	AC SIS139	AC SIS164	AC SIS198
	Planning and conducting	N/A	N/A	N/A	N/A
	Processing and analysing data and information	N/A	N/A	N/A	N/A
	Evaluating	N/A	N/A	N/A	N/A
	Communicating	AC SIS133	AC SIS148	AC SIS174	AC SIS208

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TURTLES: RESCUE, REHABILITATE, RELEASE (SEASONAL - USUALLY JUNE-FEBRUARY)

Years:	Years 7-12
Duration:	90 minutes
Min/Max in each group:	15 min/30 max
Activity Location:	DDC



This program will introduce students to the Loggerhead turtle and provide a comprehensive understanding of the challenges faced by marine turtles and other endangered and threatened species. A key focus will be assessing the impact of human activities on the marine environment and developing management strategies that promote conservation and sustainability.

Students will:

- Develop an understanding of endangered and threatened species, especially the Loggerhead Turtle, through games, video, aquarium displays and preserved specimens.
- Examine injuries sustained by the rehabilitating turtles and explore possible causes.
- Discuss the importance of protecting marine environments and identify strategies to help ensure the survival of endangered and threatened species.

Key Learning Area:	Science
Other Learning Areas:	Arts, Humanities and Social Sciences
Cross Curriculum Priorities:	Sustainability, Aboriginal histories and cultures

Major Strands	Sub-strands	Content Descriptions			
		Year 7	Year 8	Year 9	Year 10
Science Understanding	Biological sciences	ACUSS111 ACSSU112	ACSSU150	ACSSU175 ACSSU176	ACSSU184 ACSSU185
	Chemical sciences	N/A	N/A	N/A	N/A
	Earth and space sciences	ACSSU222	N/A	N/A	N/A
	Physical sciences	N/A	N/A	N/A	N/A
Science as a Human Endeavour	Nature and development of science	ACSHE119	ACSHE226	N/A	N/A
	Use and influence of science	ACSHE121	ACSHE136	ACSHE228	ACSHE230
Science inquiry skills	Questioning and predicting	AC SIS124	AC SIS139	AC SIS164	AC SIS198
	Planning and conducting	N/A	N/A	N/A	N/A
	Processing and analysing data and information	N/A	N/A	N/A	N/A
	Evaluating	N/A	N/A	N/A	N/A
	Communicating	AC SIS133	AC SIS148	AC SIS174	AC SIS208

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MANGROVE MYSTERIES: EXPLORING COASTAL ECOSYSTEMS

Years: Years 7-12
Duration: 90 minutes
Min/Max in each group: 15min/30max
Activity Location: DDC and the Mangroves



Students will investigate and explore the composition of the mangrove habitat located within the Leschenault Inlet and identify the miracle adaptations they have made to survive in such a harsh environment. They will also identify the interdependencies that exist between the mangroves and the local flora and fauna and how both anthropogenic and natural changes have impacted the area over time. Identifying these critical variables that influence the natural processes will also allow the students to formulate theories on future impact and the establishment of management strategies that promote future conservation and sustainability.

Students will:

- Explore the mangrove habitat from a wooden boardwalk and observe a diversity of animals and plants that exist within and/or depend upon the mangrove system.
- Conduct their own hands-on catch and release investigation activity using basic scientific field equipment. During this activity they will collect, organize and interpret their own data and ultimately present a real time biodiversity index for the entire habitat.

Key Learning Area: Science
Other Learning Areas: Arts, Humanities and Social Sciences
Cross Curriculum Priorities: Sustainability, Aboriginal histories and cultures

Major Strands	Sub-strands	Content Descriptions			
		Year 7	Year 8	Year 9	Year 10
Science Understanding	Biological sciences	ACUSS111 ACUSS112	ACSSU150	ACSSU175 ACSSU176	ACSSU184 ACSSU185
	Chemical sciences	N/A	N/A	N/A	N/A
	Earth and space sciences	ACSSU222	N/A	N/A	N/A
	Physical sciences	N/A	N/A	N/A	N/A
Science as a Human Endeavour	Nature and development of science	ACSHE119	ACSHE226	N/A	N/A
	Use and influence of science	ACSHE121	ACSHE136	ACSHE228	ACSHE230
Science inquiry skills	Questioning and predicting	AC SIS124	AC SIS139	AC SIS164	AC SIS198
	Planning and conducting	AC SIS125	AC SIS140	AC SIS165	AC SIS199
	Processing and analysing data and information	AC SIS130	AC SIS145	N/A	AC SIS204
	Evaluating	AC SIS131	AC SIS146	N/A	N/A
	Communicating	AC SIS133	AC SIS148	AC SIS174	AC SIS208

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FISHERIES SCIENCE: HERRING DISSECTION

Years:	Years 7-12
Duration:	90 minutes
Min/Max in each group:	15min/30max
Activity Location:	DDC



This program will provide a hands-on dissection activity designed to create an awareness of the biology and ecology of bony fishes and how it relates to fisheries management.

Students will:

- Dissect and identify the internal features of a bony fish.
- Determine the key features of their anatomy that allow them to survive underwater.
- Remove and examine the fish ear bones (otoliths).
- Complete a worksheet on fish ageing strategies that assist in the management of key fish stocks found in Western Australia.

Key Learning Area:	Science
Other Learning Areas:	Arts, Humanities and Social Sciences
Cross Curriculum Priorities:	Sustainability

Major Strands	Sub-strands	Content Descriptions			
		Year 7	Year 8	Year 9	Year 10
Science Understanding	Biological sciences	ACSSU112	ACSSU150	ACSSU175	ACSSU184
	Chemical sciences	N/A	N/A	N/A	N/A
	Earth and space sciences	N/A	N/A	N/A	N/A
	Physical sciences	N/A	N/A	N/A	N/A
Science as a Human Endeavour	Nature and development of science	ACSHE119	ACSHE226	N/A	N/A
	Use and influence of science	ACSHE121	ACSHE136	ACSHE228	ACSHE230
Science inquiry skills	Questioning and predicting	AC SIS124	AC SIS139	AC SIS164	AC SIS198
	Planning and conducting	AC SIS125	AC SIS140	AC SIS165	AC SIS199
	Processing and analysing data and information	AC SIS130	AC SIS145	N/A	AC SIS204
	Evaluating	AC SIS131	AC SIS146	N/A	N/A
	Communicating	AC SIS133	AC SIS148	AC SIS174	AC SIS208

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RESCUING OUR REEFS

Years: Years 7-12
Duration: 90 minutes
Min/Max in each group: 15min/30max
Activity Location: DDC



Students will investigate various coral reefs to understand why these marine environments are crucial ecosystems. They will examine the interdependencies between the corals and other flora and fauna and analyse how both anthropogenic and natural changes have affected these ecosystems over time. By identifying key factors that influence the health of reefs, students will develop theories on future impact and create management strategies aimed at promoting long-term conservation and sustainability.

Students will:

- Learn about various coral reefs and the diversity of animals and plants that exist within and/or depend upon the reef ecosystem.
- Develop an understanding of the global threats confronting coral reefs.
- Complete a worksheet developing strategies for rehabilitating coral reefs in Australia.

Key Learning Area: Science
Other Learning Areas: Arts, Humanities and Social Sciences
Cross Curriculum Priorities: Sustainability

Major Strands	Sub-strands	Content Descriptions			
		Year 7	Year 8	Year 9	Year 10
Science Understanding	Biological sciences	ACUSS111 ACSSU112	ACSSU150	ACSSU175 ACSSU176	ACSSU184 ACSSU185
	Chemical sciences	N/A	N/A	N/A	N/A
	Earth and space sciences	ACSSU222	N/A	N/A	N/A
	Physical sciences	N/A	N/A	N/A	N/A
Science as a Human Endeavour	Nature and development of science	ACSHE119	ACSHE226	N/A	N/A
	Use and influence of science	ACSHE121	ACSHE136	ACSHE228	ACSHE230
Science inquiry skills	Questioning and predicting	AC SIS124	AC SIS139	AC SIS164	AC SIS198
	Planning and conducting	N/A	N/A	N/A	N/A
	Processing and analysing data and information	N/A	N/A	N/A	N/A
	Evaluating	N/A	N/A	N/A	N/A
	Communicating	AC SIS133	AC SIS148	AC SIS174	AC SIS208

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CULTIVATING CORALS

Years:	Years 7-12
Duration:	90 minutes
Min/Max in each group:	15min/30max
Activity Location:	DDC



Students will investigate corals both as individual organisms and as part of a colonial structure. They will study the mutualistic relationships between coral and zooxanthellae, and how this relationship is influenced by the overall health of the coral's ecosystem. Additionally, students will learn about coral cultivation for both aquaculture and reef rehabilitation.

Students will:

- Develop an understanding of coral anatomy and coral reef formation through discussions, videos, observations and activities.
- Complete a worksheet on the symbiotic relationship between corals and zooxanthellae.
- Participate in a hands-on activity to propagate various hard coral species for placement into the artificial reef or tropical aquariums in the DDC.

Key Learning Area:	Science
Other Learning Areas:	Arts, Humanities and Social Sciences
Cross Curriculum Priorities:	Sustainability

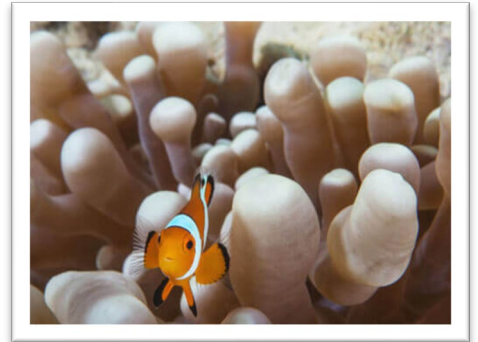
Major Strands	Sub-strands	Content Descriptions			
		Year 7	Year 8	Year 9	Year 10
Science Understanding	Biological sciences	ACUSS111 ACSSU112	ACSSU150	ACSSU175 ACSSU176	ACSSU184 ACSSU185
	Chemical sciences	N/A	N/A	N/A	N/A
	Earth and space sciences	ACSSU222	N/A	N/A	N/A
	Physical sciences	N/A	N/A	N/A	N/A
Science as a Human Endeavour	Nature and development of science	ACSHE119	ACSHE226	N/A	N/A
	Use and influence of science	ACSHE121	ACSHE136	ACSHE228	ACSHE230
Science inquiry skills	Questioning and predicting	AC SIS124	AC SIS139	AC SIS164	AC SIS198
	Planning and conducting	AC SIS125	AC SIS140	AC SIS165	AC SIS199
	Processing and analysing data and information	AC SIS130	AC SIS145	N/A	AC SIS204
	Evaluating	AC SIS131	AC SIS146	N/A	N/A
	Communicating	AC SIS133	AC SIS148	AC SIS174	AC SIS208

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SYMBIOTIC SECRETS - EXPLORING NATURE'S PARTNERSHIPS

Years: Years 7-12
Duration: 90 minutes
Min/Max in each group: 15min/30max
Activity Location: DDC



During this program students will explore various types of symbiosis in marine ecosystems, with a focus on mutualistic relationships. Students will gain in depth knowledge about interactions such as clownfish and anemones, coral and zooxanthellae and cleaning animals and predators, as well as the functions of these relationships.

Students will:

- Develop an understanding of symbiotic relationships and their purpose through discussions, digital animation, aquarium displays and preserved specimens.
- Complete a worksheet on mutualistic relationships in a coral reef eco-system and their significance.

Key Learning Area: Science
Other Learning Areas: Arts, Humanities and Social Sciences
Cross Curriculum Priorities: Sustainability

Major Strands	Sub-strands	Content Descriptions			
		Year 7	Year 8	Year 9	Year 10
Science Understanding	Biological sciences	ACUSS111 ACSSU112	ACSSU150	ACSSU175 ACSSU176	ACSSU184 ACSSU185
	Chemical sciences	N/A	N/A	N/A	N/A
	Earth and space sciences	ACSSU222	N/A	N/A	N/A
	Physical sciences	N/A	N/A	N/A	N/A
Science as a Human Endeavour	Nature and development of science	ACSHE119	ACSHE226	N/A	N/A
	Use and influence of science	ACSHE121	ACSHE136	ACSHE228	ACSHE230
Science inquiry skills	Questioning and predicting	AC SIS124	AC SIS139	AC SIS164	AC SIS198
	Planning and conducting	N/A	N/A	N/A	N/A
	Processing and analysing data and information	N/A	N/A	N/A	N/A
	Evaluating	N/A	N/A	N/A	N/A
	Communicating	AC SIS133	AC SIS148	AC SIS174	AC SIS208

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PLASTIC PURSUIT - TACKLING OCEAN POLLUTION

Years: Years 7-12
Duration: 90 minutes
Min/Max in each group: 15 min/45 max
Activity Location: DDC and Beach



In this program, students will examine the impact of human activities on marine environments, focusing on plastic pollution. They will investigate the volume of plastic entering the ocean annually, its journey through the marine environment and the consequences for both marine life and human health. Additionally, students will discuss strategies to minimise plastic waste and address the plastic that has already accumulated in the ocean.

Students will:

- Learn about the impact of plastic waste on marine environments and ecosystems through discussions, games, videos and aquarium displays.
- Develop strategies to prevent pollution, plastic or otherwise, from entering the ocean.
- Participate in a hands-on investigation to determine the quantity of microplastics present in Koombana Bay beach.

Key Learning Area: Science
Other Learning Areas: Arts, Humanities and Social Sciences
Cross Curriculum Priorities: Sustainability

Major Strands	Sub-strands	Content Descriptions			
		Year 7	Year 8	Year 9	Year 10
Science Understanding	Biological sciences	ACSSU112	ACSSU150	ACSSU176	ACSSU185
	Chemical sciences	N/A	N/A	N/A	N/A
	Earth and space sciences	ACSSU116 ACSSU222	N/A	N/A	N/A
	Physical sciences	N/A	N/A	N/A	N/A
Science as a Human Endeavour	Nature and development of science	ACSHE119	ACSHE226	N/A	N/A
	Use and influence of science	ACSHE121	ACSHE136	ACSHE228	ACSHE230
Science inquiry skills	Questioning and predicting	AC SIS124	AC SIS139	AC SIS164	AC SIS198
	Planning and conducting	AC SIS125	AC SIS140	AC SIS165	AC SIS199
	Processing and analysing data and information	AC SIS130	AC SIS145	AC SIS170	AC SIS204
	Evaluating	AC SIS131	AC SIS146	N/A	N/A
	Communicating	AC SIS133	AC SIS148	AC SIS174	AC SIS208

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INCURSION PROGRAMS

Years:	Various
Duration:	90 minutes
Min/Max in each group:	30 min/no max
Activity Location:	Your School



Our incursion programs provide students with the experiences of exploration and investigation within their own classroom. The programs will closely align with the excursions of the same name, tailored to fit the available space and equipment.

Programs Available:

- Bring the Sea to Me- All Years
- Mission Microplastic – Years 3-6
- The Marine World – Years 7-12
- Fisheries Science: Herring Dissection – Years 7-12
- Rescuing Our Reefs – Years 7-12
- Symbiotic Series – Exploring Nature's Partnerships – Years 7-12

Key Learning Area:	Science
Other Learning Areas:	Arts, Humanities and Social Sciences



BOATS, BIOLOGY AND THE BAY (WEATHER DEPENDENT)

Years:	Years 7-12
Duration:	60-90 minutes
Min/Max in each group:	20min/29max
Activity Location:	DDC, the Beach and the Boat



Students will gain a better understanding of the Koombana Bay environment inclusive of human activities and the potential impacts they impose. This boat-based tour will also introduce dolphin research strategies and how the information is used for conservation purposes.

Students will:

- Collect, record and collate data on the dolphins, the weather conditions and boating activity during the trip.
- Observe dolphins in their natural environment.
- Learn more about Koombana Bay as a working Port Facility and how the local waterways have been modified over the past 150 years to accommodate for it.
- Identify the risks to the local environment and what can be done to promote its future sustainability.

Key Learning Area:	Science
Other Learning Areas:	Arts, Humanities and Social Sciences
Cross Curriculum Priorities:	Sustainability, Aboriginal histories and cultures

Major Strands	Sub-strands	Content Descriptions			
		Year 7	Year 8	Year 9	Year 10
Science Understanding	Biological sciences	ACUSS111 ACSSU112	ACSSU150	ACSSU175 ACSSU176	ACSSU184 ACSSU185
	Chemical sciences	N/A	N/A	N/A	N/A
	Earth and space sciences	ACSSU222	N/A	N/A	N/A
	Physical sciences	N/A	N/A	N/A	N/A
Science as a Human Endeavour	Nature and development of science	ACSHE119	ACSHE226	N/A	N/A
	Use and influence of science	ACSHE121	ACSHE136	ACSHE228	ACSHE230
Science inquiry skills	Questioning and predicting	AC SIS124	AC SIS139	AC SIS164	AC SIS198
	Planning and conducting	AC SIS125	AC SIS140	AC SIS165	AC SIS199
	Processing and analysing data and information	AC SIS130	AC SIS145	N/A	AC SIS204
	Evaluating	AC SIS131	AC SIS146	N/A	N/A
	Communicating	AC SIS133	AC SIS148	AC SIS174	AC SIS208

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STAFF INFORMATION VISIT

If you would like our Education Officer to be available to give further information on our Education Programs or give a presentation to you and your colleagues to answer any questions, please discuss with our bookings staff.

SCHOOL PROFESSIONAL DEVELOPMENT WORKSHOP

The Dolphin Discovery Centre provides a comprehensive range of opportunities for professional development programs to be conducted by schools for their staff. Programs can include Marine Environment Awareness, and Coastal Sustainability. During the workshops or courses, the schools will have full access to the facilities of the Centre and have opportunities to explore the local area under guidance by Centre staff. Boat Tours are also available, and catering is also an option upon request.

HOW TO BOOK

Please fill out the 'Education Booking Request Form' on our website and our bookings staff will be in touch the next working day to assist you.

TERMS OF BOOKING

- Please book in advance to avoid disappointment.
- We need 72 hours' notice for cancellation, numbers must be confirmed at this time and invoices will be charged based off those numbers. Allowances are made for children sick on the day, but if they can be as accurate as possible as this allows us to staff accordingly.
- Students are allowed to bring their own lunch and snacks for the excursion. Café & Kiosk available at the Centre.
- Teachers/Assistants are no charge but no more than 1 every 10 students. These people must be included in numbers when the Boat, Biology and Bay is booked.

WHAT TO BRING

Hats, suncream, drink bottle, lunch and snacks if applicable.





**DOLPHIN
DISCOVERY
CENTRE**

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Conservation – Education – Research – Eco Tourism

