

**CURRICULUM LEARNING AREA** 



# TURTLE WARRIORS PROGRAM ONE

Society & Environment: Investigation Communication & Participation Society & Environment: Active Citizenship		English: Reading   Writing   Viewing   Speaking & Listening Mathematics: Number   Measurement   Chance & Data Science: Life & Living			DEVELOPED BY Stephen Davis – Excelsior PS May 2009			
PROGRAM OBJECTIVE	This program introduces students to students within the school and the wi of the world's ecosystems and the ne	der community. The pro	gram achieve	s this by intr	oducing and developing a			
CURRICULUM FRAMEWORK	Students use language to understand, develop and communicate ideas and information and interact with others.	Students recognise wh information is needed, obtain it from a range of and evaluate, use and others.	locate and of sources	Students s technologi	select, use and adapt es.	Students describe and reaso about patterns, structures an relationships in order to understand, interpret, justify make predictions.	d	Students visualise consequences, think laterally, recognise opportunity and potential and are prepared to test options.
OVERARCHING LEARNING OUTCOMES	Students understand and appreciate the physical, biological and technological world and have the knowledge, skills and values to make decisions in relation to it.	Students understand the geographic and historic and have the knowledge values necessary for an participation in life in A	cal contexts ge, skills and ctive	al contexts e, skills and tive  Students interact with people and cultures other than their own and are equipped to contribute to the		Students are self motivated a confident in their approach to learning and are able to work individually and collaborative	and C Iy.	Students recognise that everyone has the right to feel valued and be safe, and, in this regard, understand their rights and obligations and behave responsibly.
CURRICULUM FRAMEWORK VALUES	A pursuit of knowledge and a commitment to achievement of potential.	Self acceptance and se	elf respect	Respect a	nd concern for others ights	Social and civic responsibility	′	Environmental responsibility

**CURRICULUM INTEGRATION** 

# WESTERN AUSTRALIA K – 10 SYLLABUS STATEMENTS OF LEARNING

# ICP

# Students will be able to...

- Identify what aspects need to be considered when planning an investigation (for example, where to find information).
- Devise own questions when planning an investigation.
- Use simple data gathering techniques when collecting information when conducting investigations.
- Identify and use information from more than one source when conducting investigation.
- Select and compare relevant, literal and factual information when processing and interpreting the information.
- Make inferences from the information when processing and interpreting the information.
- Compare own interpretations with others when applying and communicating findings.
- Justify personal decisions when applying and communicating findings.

# ACTIVE CITIZENSHIP

### Students will be able to...

- Understand and demonstrate why there is a need to develop and implement a program that protects the Long Necked Turtles that live in the man made and natural water catchments in their local community.
- Demonstrate a broader awareness for the need to protect and ensure the sustainability of wild animals on a global scale.
- Understand what factors may influence the survival of the Long Necked Turtle.
- Make connections between the influencing factors that are affecting the ecological balance of the natural world.
- Understand the role of an environmental activist in our society.
- Understand that individually they can be an environmental activist rather than a passive bystander.

## Tasks to demonstrate evidence of student learning will be...

- 1:4:P:C:R (Students to work together to identify what aspects need to be considered before undertaking investigative research).
- **Consequences and Sequels** (Students to be provided with questions regarding the ecological balances and students to decide on the consequences).
- **5W's & 1H** (Students to have the opportunity to devise own questions to help guide investigative research).
- Cornell Note Taker (Students record key words and phrases obtained from the variety of sources they referred to when undertaking the investigative research).
- Word Hunter (Students to write down words and phrases as the information is found during the research. The students then sort these words into common ideas or discard irrelevant words).
- Jigsaw (Students to analyse different aspects from a single text on "Turtles". Students use
  reading strategies such as 'Paraphrasing and Summarising' when analysing the text in
  order to compare and infer).
- **Written Report** (Students to write a report in order to interpret and infer the information they gathered during the investigative research).
- **Triad Listening** (Students to communicate findings to others providing opportunity to compare findings and justify personal decisions).

# Tasks to demonstrate evidence of student learning will be...

- TWLH Chart (Students to record what they know about 'activism' or 'take action').
- **Brainstorm** (Students to think of reasons why there is a need to develop a program in the school to protect the Oblong Turtles. From this activity, guide discussion to more global scale awareness).
- Graffiti (Students think about and write down any factors that may affect the sustainability of Oblong Turtles. Aspects may include: water quality and monitoring, breeding opportunities, human impacts such as development, pollution and pets, natural and unnatural predators and the rehabilitation and ongoing care of injured turtles. Students use this information to help devise their own questions later in the unit when writing their reports).
- Card Shuffle (Students to match well known global activist organisations with a description of their work. For example, Green Peace, Save the Animals, Bears in China, etc).
- Consider All Factors (Students consider the consequences for the Oblong Turtles if there
  were no policy in place for their protection. Students consider the consequences if there were
  not activists in our global community).
- Turtle Journal (Students will keep a visual and literacy record of all work related to this unit of
  work. The journal will be used to write down and draw observations, record reflections and set
  goals. Students will use the journal to make predictions, explore new or alternative ideas and
  to analyse and evaluate new knowledge).

#### Criteria for the task

ICP: PLAN	NNING		
Level 2	Given a focus question, identifies a range of aspects to be considered.	Is able to identify where to find relevant information	
Level 3	Demonstrates individual brainstorming	With guidance, plans an investigation by devising questions	
ICP: CON	DUCTING		
Level 2	Uses subject keywords to search for resources	Identifies and records relevant information using reports or recounts	Makes literal factual observations
Level 3	Gathers information from more than one source. (reference, talk, excursion)	Records useful information in different ways (table, concept map, lists)	
ICP: PRO	CESSING & TRANSLATING		
Level 2	Sorts information into correct sequence and clusters ideas	Uses keywords to gather information.	
Level 3	Recognises key ideas and patterns	Discards irrelevant information	Makes inferences from the information
ICP: APPL	LYING & COMMUNICATING FINDINGS		
Level 2	Listens to others and compares own interpretation with others	Reflects on their own performance	
Level 3	Communicates findings in a variety of forms to suit the audience	Identifies gaps in their information	Justifies decisions after reviewing original understandings

Developi Phase	Phase policy that protects the Long Necked Turtles in local community.  Well Demonstrates an understanding for the need to protect the ecological balance of the natural world on a global.				Identifies what factors influence the sustainability of The Long Necked turtle in local community.  Demonstrates an understanding in our society and can recall me					
Develope				Is able to make connections between influencing factors that affect the ecological balance of the natural world.			s a	Can identify ways where individually they are able to actively change or take action to protect the ecological balance of the natural world.		
Format for	r collecting and	recording information		1						
	Checklists		al Observations		Collection of Work Samples		Student Self Assessment		Peer Assessment	
	of learning and tunity to Learn	Connection & Challenge	Action & Reflec	ction	Motivation & Purpose	Inclusivity & Dif	erence	Independer Collabora		Supportive Environme
'Five E' N	Model	Teaching and Learning A	activities							Resources
	ly engage Hand out exercise books for students to use as their Turtle Journals. Explain to students that all work that concerns this unit will be done in this Journal					Turtle Journals Turtle Journal covers				
students,	engage capture		or students to use as	their Tu	urtle Journals. Explain to stude	ents that all work t	nat conce	erns this unit will be	e done in	Turtie Journal Covers
Mentally of students,	engage capture able to express	this Journal  TAKING ACTION  Discuss what the terms 'A	ctivism' or 'Taking Ac	ction' me						A variety of action group organisation logos laminated.

Classify logos under these headings: POLITICAL, ENVIRONMENTAL, HUMAN RIGHTS, ANIMAL RIGHTS. Talk about what these classifications mean and what this type of organisation typically does.

**TEACHING AND** 

**TWLH Chart** 

Students to complete 'What I think I know' on their TWLH charts.

EXPLORE	TURTLE WARRIORS	Turtle Journals
Hands on activities, explore the concept or skill. Make sense of	Discuss with students how they will take on the role of Turtle Warriors in the school to protect and handle the Oblong Turtle. Introduce the concept that will take place as an Action Group within a school.	
concept or skill.	Brainstorm/Discussion What does an Action Group do? What does this mean for us? What consideration do we need to think of to form and participate in an Action Group?	Brainstorm
	Consider All Factors (CAF) Students to individually complete a CAF flow chart using the following reflective questions.  • What would be the consequences if there was no policy in place to protect local wildlife.  • What would be the consequences of me taking action to protect the Long Necked Turtles.	Turtle Journals
	Share with class.	
	INFLUENCING FACTORS Students will now consider what influencing factors affect the sustainability of Oblong Turtles in their local community. The term 'sustainability' will be introduced into class discussions.	
	Think Pair Share What is sustainability? Students work together to come up with a common understanding of what 'sustainability' means. Ideas and opinions are noted in Turtle Journal. After whole class discussion and a definition has been agreed upon, students to write this in their Turtle Journals.	Word Wall
	Graffiti Boards What are the influencing factors? Students to think about any factors they can think of that may affect the sustainability of the Oblong Turtles.	Graffiti Boards
	BIODIVERSITY Introduce topic of biodiversity.	Turtle Journals
	<b>Explanation</b> (Primary Connections 'Marvellous micro-organisms – Biodiversity mini unit' DETWA 2008)  The earth supports a huge variety of plants, fungi, animals and micro-organisms. Organisms are found living over the surface of the land, in soils and in fresh and salt waters. Some micro-organisms can grow in the air, some on rocks and some in ice.	Word Wall
	Biodiversity is the variety of all living things. It includes the obvious large animals and plants, the smaller animals and creatures and millions of micro-organisms.	

'Five E' Model	Teaching and Learning Activities	Resources
	Biodiversity describes more than the gross number of kinds of living things. It includes:	Turtle Journals
	Species diversity	
	Genetic diversity	NAC - I NAC II
	Ecosystem diversity	Word Wall
	Discuss with students what these terms mean. Some students to look up on internet, whilst other look for information in encyclopaed and dictionaries.	as Ribbons of Blue
	Bug Dial	Bug Dial resource shee
	Students to complete bug dial prior to excursion. This will be used at excursion to identify macro invertebrates.	
	Water Quality Jigsaw Students to work in cooperative groups to learn about what factors contribute to water quality. This information is shared back to other	Ribbons of Blue
	groups	Water Quality informati sheets
	Anticipation Guide Prior to attending the excursion, the students will complete an Anticipation Guide questionnaire. This will tune in students and provide way for students to know what information they should anticipate or learn at the excursion.	Anticipation Guide
	Anticipation Statement True/False	
	The Canning River was once used to water fruit trees.	
	One side of the Kent Street Weir is less salty than the other.	
	There is a species of shrimp in the Canning River.	
	The Canning River can be considered as an Eco System.	
	There are small crocodiles, rarely seen, that can be found in the Canning River.	
	The river changes height at different times of the day.	
	The level of salt in water has an affect on what organisms can survive in the water.	<del> </del>
	The ducks with orange bills are vicious and will snap at your heels when you turn your back on them.	
	Sharks can be found in the river.	
	All algae in the river is dangerous and will make you sick if you swallow it.	
	All algae in the river is dangerous and will make you sick if you swallow it.	
	Excursion to the Canning Regional Eco Education Centre (CREEC)	
	Students will participate in two workshops that focus on the biodiversity of a body of water (Canning River). The two workshops will in	clude
	Water quality testing and Micro-invertebrates. This session will also include a follow up by the Education Officer from CREEC to the	Resources supplied by
	schools local lake and wetlands later in the unit.	CREEC.
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'Five E' Model	Teaching and Learning Activities	Resources
EXPLAIN  Explanations are made on the concept or skill.	THE OBLONG TURTLE Students will focus on the Oblong Turtle for the purpose of gaining an understanding of the reptile in terms of its anatomy, lifecycle, habitat and where it fits into the ecosystem.	Turtle Journals
Explanation follows experience.	Scientific name: Chelodina oblonga Nyoongar name: Booyi  Anatomy Students to learn the names of the different parts of the turtle shell. Students will match labels to a turtle skeleton diagram.	Word Wall
	Ribs Scute  Vertebral Column  Pelvic Girdle	Skeleton and Scutes diagram  Enlarged copy of photographs for each group
	Life Cycle Students to put pictures of the lifecycle in the order they think it should go.  Discuss each picture and put enlarged whole class copy into order. Students to check own and change. Glue into Turtle Journals.	Life Cycle pictures (One enlarged copy for whole class discussion)  Turtle Journals

'Five E' Model	Teaching and Learning Activities	Resources
ELABORATE	THE OBLONG TURTLE POLICY	
Provides opportunity for	Refer students back to 'Explore' lessons on the need for a policy to ensure the sustainability of the Oblong Turtle. Student to re look at	Turtle Journals
apply the concepts or	their initial CAF and decide if there is anything else they can add to this.	
skill. Develops a deeper understanding	Becoming an Activist	Word Wall
of the concept or skill.	With the assistance of Amy Krupa (SERCUL) students will participate in writing a 'Kid Friendly' policy that will ensure the protection	vvoru vvaii
of the concept of skill.	and sustainability of the Oblong Turtles found in the school and local wetlands.	
	and sustainability of the obiolog furthes found in the soliton and local wellands.	
	Students to think about and prepare an 'aim' or focus for the Action Group.	
	Students to prepare visual aids and present these to other students.	
	Students to prepare a Turtle Warrior kit necessary for the safe handling of the reptiles.	
	State his to prepare a Turtie Warnor Kit necessary for the sale handling of the reptiles.	
	Students to think about ways to be visible to other students whilst in the playground. For example, a logo that could be printed on	
	badges, caps or shirts. This logo will become the Action Groups branding.	
	Environmental Issues	
	Carry out a whole class brainstorm to discuss the Environmental Issues that would affect the Oblong Turtle. Guide discussion around	
	POLLUTION AND WATER QUALITY, DEVELOPMENT and ENVIRONMENTAL ISSUES. Students to visit local lake to carry out a macro-invertebrate count.	
	macro-invertebrate count.	
	1:4:P:C:R	
	Students to work together to identify what aspects need to be considered before undertaking investigative research.	Dept. Environment &
		Conversation Fauna Note 37
	REFER TO TURTLE INFORMATION REPORT TEACHING PROGRAM	
	ICP: PLANNING	
	5W's & 1H	
	Students to have the opportunity to devise own questions to help guide investigative research. Provide assistance to students who are	
	having difficulty to devise own questions.	
	ICP: CONDUCTING	
	Cornell Note Taker	http://www.pilbarapythons.co
	Students record key words and phrases obtained from the variety of sources they referred to when undertaking the investigative	oblongturtle.htm
	research. Students will be encouraged to use information already found and will be directed to a number of age appropriate websites.	Don't Fording word 0
	Jigsaw	Dept. Environment & Conversation Fauna Note 37
	Students to analyse different aspects from a single text on "Turtles". Students use reading strategies such as 'Paraphrasing and	Conversation Fauna Note 37
	Summarising' when analysing the text in order to compare and infer.	
	Commencing when charged the text in credit to compare and men.	

	'Five E' Model
TEACHING AND LEARNING EXPERIENCES	EVALUATE Continue the development of understanding o and evaluate the learning.

'Five E' Model	Teaching and Learning Activities	Resources
	ICP: PROCESSING & TRANSLATING	
	Word Hunter & Sorter	
	Students to write down words and phrases as the information is found during the research. The students then sort these words into common ideas or discard irrelevant words).	
EVALUATE	Written Report	
Continue the development of the	Students to write a report in order to interpret and infer the information they gathered during the investigative research. The final report must include the topics: DESCRIPTION, DIET, HABITAT, LIFE CYCLE and an ENVIRONMENTAL ISSUES affecting the Oblong Turtle.	Writing a Turtle Rep Teaching & Learning
understanding of the skill		Program
and evaluate their	ICP: APPLYING & COMMUNICATING FINDINGS	
learning.	Triad Listening	Turtle Journals
	Students to communicate findings to others providing <i>opportunity</i> to compare findings and justify personal decisions.	
		Triad Listening
	Ongoing Turtle Warrior work	Assessments sheets
	Students to continue to actively participate in the sustainability of the Oblong Turtles. Students will be encouraged to perform ongoing evaluations of the policy and adjust accordingly.	TWLH charts
	TWLH Chart	
	Students to reflect on and complete their TWLH Chart that was started at the beginning of the unit about 'Taking Action'.	

Students continually monitor turtles as the year progresses. This information is updated on the website graph.