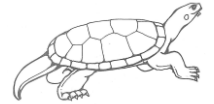


# Unique Adaptations to a Unique Environment: Mary River Turtle and its Environs

## LESSON ONE: **All life needs water** (Fresh water habitat); Understanding your place in the Catchment



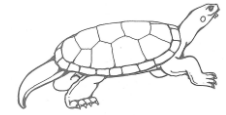
PHASE	LEARNING SEQUENCE	ACTIVITY	RESOURCES
Engage	Who needs freshwater? (Pose ASOT question)	<u>View as a class:</u> Sharing Mary DVD Lesson 1 (Covers creatures which rely on the river. This should prompt students to come up with ideas for the brainstorm at the Explain section) <u>Discuss:</u> What do we already know? Where does our water come from? (sky, tanks, tap, etc) (Guide discussion to the point where student realise that water from the taps in town comes from local catchment esp. the river and major tributaries)	Resource # 1 ASOT question poster  Resource # 2 Sharing Mary DVD (Lesson 1)
Explore	Understanding your place in the Catchment	What is our local river called? (Indigenous name & Common name) Refer to DVD <u>Put students in teams</u> Answer the five questions by marking places on the map (in teams, 7 minutes)	Resource #3 Map of catchment (one per student)
Explain	Importance of freshwater environment	<u>Brainstorm:</u> List on a large sheet of Butcher's paper  <u>Healthy rivers are essential for all life on Earth</u> Teacher: Fill out KWL and keep for rest of unit Display with Word Wall or in Science area.	Resource #4 Importance of freshwater (KWL chart) To find out more of what we need to know: Optional: Write letter to Tiaro Landcare, P O Box 6, Tiaro 4650 or <a href="http://www.mrccc.org.au">www.mrccc.org.au</a>
Elaborate	Understanding relative reliance of groups on fresh water for survival	Student <u>discussion and reflection</u> In teams: <u>Sort</u> out your cards in order of importance. Team member (Speaker) reports on what their team decided. After students sequence the cards, guide discussion to show that the most dependent of all are the ones that live in the water. <u>New Understanding:</u>	Resource #5 Reliance on freshwater (laminated cards)

		Freshwater is the <b>ONLY</b> habitat for some animals.	
<b>Evaluate</b>	Clarify students' understanding the importance of fresh water to each interest group.	Re-play DVD segment.  The DVD showed us that the Mary River is essential for life, and gave us some examples.	Resource #6 ASOT Goal Review (Glue sheets in Science Journals/display folders) (Display KWH chart in room)

### **Teacher Tips:**

1. ASOT question:  
All plants, trees, animals and humans living on land need freshwater to survive. It is the most essential need after oxygen.
  
2. Definition of Catchment:  
The area drained by a river or body of water.
  
3. Names for the Mary River  
Traditional aboriginal name was Moonaboola (Kabi Kabi and Butchulla). Particular places had individual names.  
  
Named Wide Bay River in May 1842 by early European explorer Andrew Petrie.  
  
Changed to Mary River in 1847 after the Lady Mary Fitzroy, the wife of the Governor of NSW Sir Charles Augustus Fitzroy. This was before Qld became a separate colony. The Fitzroy River was named after him.

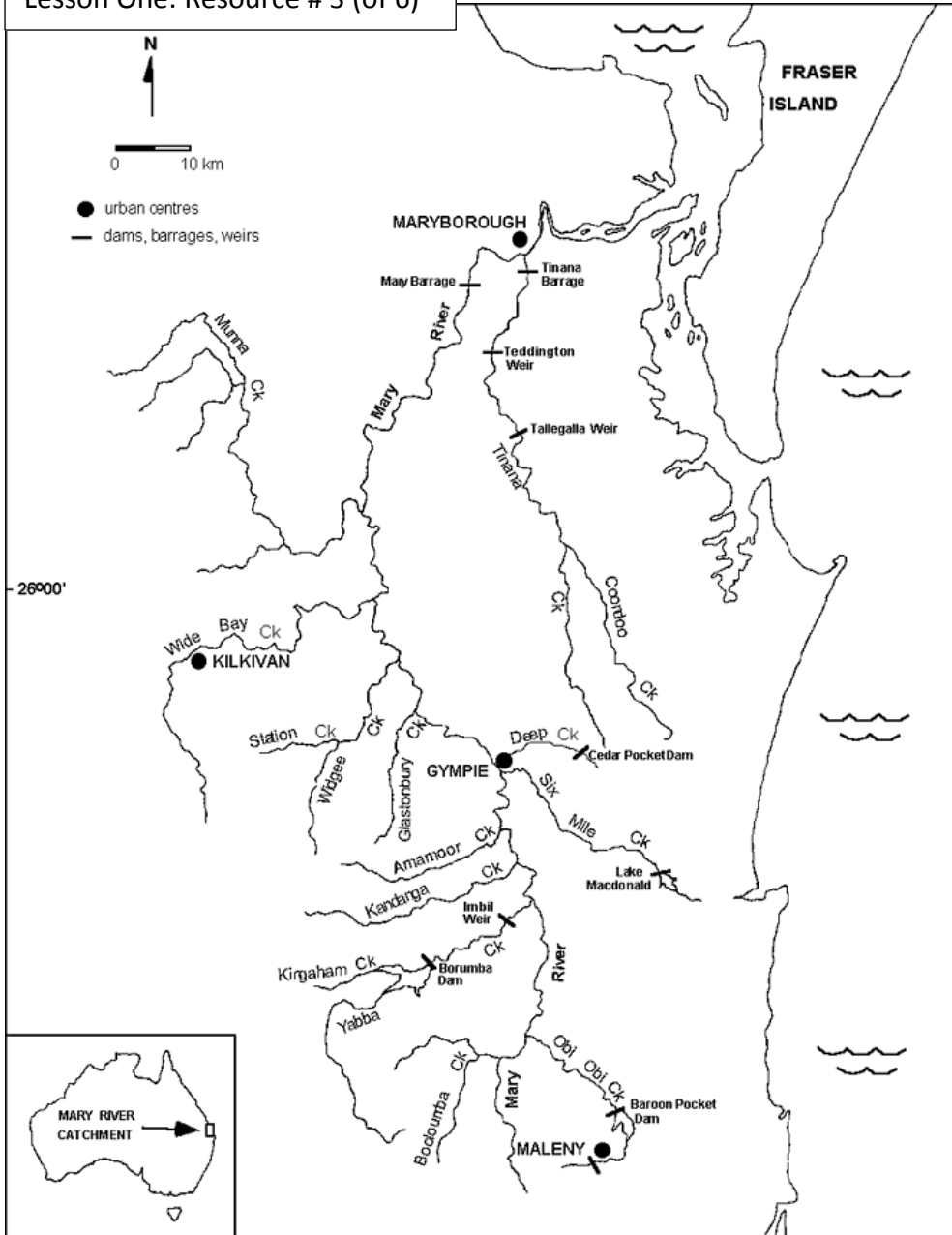
# ASOT Goal setting



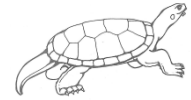
Today's Lesson poses the question:

## Who needs fresh water?





# Mary River/Moonaboola Catchment



1. Look carefully at this map of the Mary River catchment.
2. Mark the place where you estimate your school is.
3. Mark other places you know such as your house, places you swim or go fishing or camping/holidaying.
4. Mark where the river begins.
5. Mark the river mouth (where it flows into the Pacific Ocean).

# Importance of Fresh Water Systems

<b>What We Know</b>	<b>What we Need to Know</b>	<b>How Can we Find out?</b>

# Reliance on freshwater

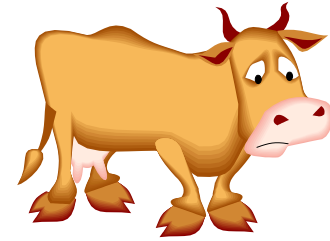
Plants need water to grow.



Native animals need water to drink.



Farm animals need water to drink.



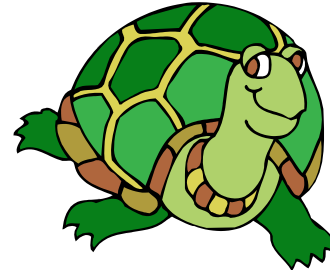
People use water to wash clothes.



People use water to wash cars.



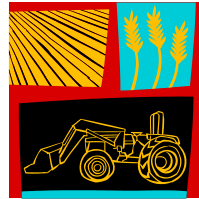
Aquatic animals need water to live in.



People like boating on lakes and rivers.



Farmers need water to grow crops for our food.



People use water to wash themselves.



## ASOT Goal Review

### Why do these need water...

- Farmers?
- Cattle?
- Kangaroos?
- Water birds?
- Insects?
- Recreation?
- **Turtles?**

