

LIMESTONE COAST LANDSCAPE BOARD

PROBLEM-BASED LEARNING QUESTIONS

Choose a question(s) and invite a member of the Limestone Coast Landscape Board to talk to your students then invite us back for the students to deliver their findings.

Contact Natasha Dawson for support at natasha.dawson@sa.gov.au



LAND

SUSTAINABLE AGRICULTURE	<p>How would you define sustainable agriculture?</p> <p>What role can sustainable agriculture play now and into the future for rural communities?</p> <p>Identify some of the environmental issues in your area. How can sustainable agriculture address these issues?</p> <p>Is adaptive farming important for the long term sustainability of agriculture?</p> <p>Does sustainable farming and organic farming mean the same thing?</p> <p>How can technology help landholders to sustainably farm?</p>
LAND USES	<p>How should we use our landscapes?</p>
PEST PLANTS & ANIMALS	<p>What is a weed and do they really have an impact on our environment?</p> <p>What are the best management and monitoring techniques for regional agricultural weeds?</p> <p>Community understanding and opinion of 1080 use - does it correlate with the facts?</p> <p>Control of native wildlife - Kangaroo culling is controversial, is it necessary, do people in the community understand why?</p> <p>What is the current understanding amongst young people on pest animal and plant control in the community and on farms, if any, and what can be done to improve this?</p> <p>How do environmental weeds impact the land and humans, why is it important to control them?</p>

SOIL HEALTH	Why should farmers be concerned about soil health?
FOOD PRODUCTION	GM crops - opportunity or fear of the unknown? How will technology shape the way we produce food into the future?
CARBON SEQUESTRATION	Why is this important to soil structure and plant growth?
FIRE MANAGEMENT	How can land managers use controlled burning to benefit people and the environment?



WATER

	What are the benefits of retaining water in the landscape?
DRAINAGE	<p>How do we maintain a balance between retaining water in the landscape and the needs of valued primary production in the South East (i.e. are there Education, Encouragement, Engineering and Enforcement approaches?)?</p> <p>What are the effects of climate change on the South East Drainage Network? What should we do now in anticipation of those predictions?</p>
RIVER MURRAY	Drought in the Murray-Darling affects all users of River Murray water. What strategies could be used in the Upper SE towns to minimise River Murray water use?
WETLANDS	How can we encourage and support landholders to manage wetlands on private property?
INTERNATIONAL AGREEMENTS (EG. RAMSAR)	The SE regions contains three Ramsar listed sites, Piccaninnie Ponds, Bool Lagoon and the Coorong. Why are International agreements like RAMSAR important?
WATER QUALITY	What are the contaminant pathways that threaten the water quality of the Blue Lake?
WATER QUANTITY	What is a sustainable extraction limit for the Blue Lake?
WATER ALLOCATION PLANNING	<p>How do you balance the social, environmental and economic needs of different water users?</p> <p>How do you put a price on environmental services e.g. who pays for water that is needed by the environment?</p>
LOCAL CREEKS	Local creeks weave through many different landholders properties how can they work together to maintain quality and quantity?



COAST & MARINE

MARINE PARKS	How do we balance the needs of the Fishers with the needs of the environment?
RECREATIONAL ACTIVITIES	What effects do recreational activities have on our coast and marine environments?
MARINE DEBRIS (LITTER)	How can we combat the trash in the ocean crisis?
SEAGRASSES	Local seagrasses are under threat. How do we replace seagrasses?
RISING SEA LEVELS	What would be the impact of rising sea levels to the South East Region?
HOODED PLOVER	Can we ensure the survival of the Hooded Plover?



PLANTS & ANIMALS

NATIVE PLANTS	Why are locally indigenous plants important to retain in our landscape?
NATIVE ANIMALS	Choose a locally threatened species, what are the requirements and threats to this species?
RED-TAILED BLACK COCKATOOS	How can we increase nesting and feeding opportunities for the Red-tailed Black Cockatoos?
PEST PLANTS & ANIMALS	Are introduced plant and animal species a problem and should we spend money managing them?
URBAN BIODIVERSITY	How does our local biodiversity contribute to the global environment? How can we increase biodiversity in our school and local community?
THREATENED SPECIES & ECOLOGICAL COMMUNITIES	Is it too late to prevent the extinction of regional native animals like the Orange-bellied Parrot? How do we conserve threatened ecological communities or should we?
REVEGETATION	How can we ensure succession of our scattered paddock trees in the landscape? Why are they valued by farmers and wildlife?
HABITATS	What can we do to improve habitats for native species? What animals require tree hollows to breed and how do we increase breeding habitat?



CLIMATE CHANGE

FOOD & FIBRE	What are the benefits of retaining water in the landscape?
CONSERVATION	How could a warming climate affect/impact on survival of species? (e.g. plants and animals)
EFFECTS ON LOCAL ENVIRONMENT	What does climate change mean for me, for my local community and for my local environment? What opportunities will present themselves?



COMMUNITY

ENVIRONMENTAL AWARENESS RAISING	How can I get my message out there and get people on board?
YOUTH & VOLUNTEERING	How can we get more young people volunteering?
INDIGENOUS LINKS & CONNECTIONS TO COUNTRY	What is the importance of cultural heritage in natural resources management? How do the historical practices of Aboriginal people managing the land apply to what we do today?
EXPLORING A CULTURE OF SUSTAINABILITY	What would building a culture of sustainability look like for my community?

**For further information about the
Limestone Coast Landscape Board please visit
www.landscape.sa.gov.au/lc**