



OCEAN ACTION

An Adventure in Beachtown



HOLIDAY SCIENCE HORRIBLES

Sustainability – planned management of a natural resource to prevent exploitation, pollution, destruction, or neglect and to ensure the future use of the resource.

Cephalopod – a group of molluscs whose name means “head-foot”. They are found in all the oceans of the world and octopus, squid and cuttlefish are among the 786 living species. Their muscular foot is modified into arms or tentacles. They move by jet propulsion and have a very well developed nervous system.

Echinoderm – a group of marine animals found in the ocean. There are about 7,000 living species including sea stars, sea urchins, sand dollars, sea cucumbers and brittle stars. They all have fivefold radial symmetry at some stage in their lifespan and they have a calcified exoskeleton. They have no brain, reproduce sexually and many have the ability to regenerate.

Symbiosis – when two organisms live together. Their association might be mutually beneficial - for example the clownfish and sea anemone; or it might be parasitic where one animal feeds off another causing the second animal to become sick or die.

Photosynthesis – a cellular process where plants make their food. Green plants and other organisms like algae use energy from the sun to make food from carbon dioxide and water.

Hermaphrodite – an organism that possess both male and female sexual organs during their lives. Some organisms

Indo-Pacific Sea Turtle Conservation Group

The Indo-Pacific Sea Turtle Conservation Group (IPSTCG) was formed in an effort to address concerns about the biology, natural history and population trends of Australian sea turtles. IPSTCG objectives are specifically targeted to reverse the decreasing sea turtle populations in the Indo-Pacific region.

www.aims.gov.au/ipstcg

Landcare

Landcare is a uniquely Australian partnership between the community, government and business to “do something practical” about protecting and repairing our environment. More than 4.000 volunteer community landcare groups - including bushcare and urban landcare, rivercare, coastcare and sustainable agriculture groups - are tackling land degradation in every corner of Australia.

www.landcareonline.com

Planet Ark

Planet Ark is an Australian organization that works to help people to reduce their day-to-day impact on the environment - at home, at work and within the community.

www.planetark.com

Greenpeace

Greenpeace is an independent organisation campaigning to ensure a just, peaceful, sustainable environment for future generations. Our mission and core values are based on independence, non-violence and bearing witness.

www.greenpeace.org.au

such as the sea wrasse start as one sex and later changes to the other sex. Other organisms such as barnacles have both male and female sexual organs at the same time as an adult.

GLOSSARY

Queensland Parks and Wildlife Services (QPWS)

The Queensland Parks and Wildlife Service (QPWS), is a department of the Queensland Government. Together with the EPA it strives to protect Queensland's natural and cultural heritage, promote sustainable use of its natural capital and ensure a clean environment.

www.epa.qld.gov.au

Environmental Protection agency

The Environmental Protection Agency (EPA), which includes the Queensland Parks and Wildlife Service (QPWS), is a department of the Queensland Government. The EPA strives to protect Queensland's natural and cultural heritage, promote sustainable use of its natural capital and ensure a clean environment.

Key functions of the organisation are environmental planning, environmental policy, management of parks, forestry and wildlife, environmental operations, sustainable industries, environmental and technical services, corporate affairs, and corporate development.

www.epa.qld.gov.au

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Clean Up Australia

Clean Up Australia is a national non-profit organization which strives to inspire and work with all Australians to clean up, fix up and conserve our environment.

www.cleanup.com.au/

Seagrass Watch

Seagrass-Watch is a community-based monitoring program developed by Queensland's Department of Primary Industries and Fisheries (QDPI&F) in conjunction with CRC Reef, Queensland Parks and Wildlife Service and community groups. Seagrass-Watch collects data about the condition and trend of near-shore seagrasses throughout Queensland and provides an early warning of major changes in seagrass abundance, distribution and species composition.

www.reef.crc.org.au/discover/plantsanimals/seagrass/seagrasswatch/

Reef Guardian Schools

The Reef Guardian Schools Program encourages schools to commit to the protection and conservation of the world heritage listed Great Barrier Reef. Reef Guardian Schools help to protect the Reef by promoting their ideas, initiatives and activities to communities to encourage all people to "do their bit to look after it!"

www.reefed.edu.au/guardians