

Answers - Climate Change

/31 K/U

/2 T/I

/9 A

Species	How is climate change is affecting the species	What is being done/researched to help?	What can I do to help? This can be something you have learned about today or any other action you can take to fight climate change
Polar bear	What do polar bears need sea ice for? (3 marks K/U) • Hunting • Breeding • Denning What percentage of polar bears are found in Canada? (1 mark K/U) 60%	(2 marks K/U) The Toronto Zoo is researching how the amount of food given to the polar bears affects their temperature, behaviour and blood chemistry, this can help scientists researching wild bears.	(1 mark A) Any correct action
Fly river turtle	What is happening to average world temperatures? (1 mark K/U) Increasing How is this affecting turtles? (1 mark K/U) • The temperature of the egg determines the sex of the hatchling. • An increase in temperature could produce hatchlings of all the same sex.	Suggest how humans could help (your own idea) (2 marks T/I) Any viable answer, ideas could include humans harvesting the eggs and incubating them at certain temperatures then releasing hatchlings.	(1 mark A) Any correct action

Komodo dragon	State two reasons sea levels are rising (2 marks K/U) • Melting glaciers/ice caps and • Thermal expansion of water How is this affecting komodo dragons? (1 mark K/U) Reduces komodo dragon habitat	(2 marks K/U) Two of the following; • Ecological engineering, ensuring healthy ○ reefs ○ mangroves ○ seagrass populations • Reducing sedimentation, to reduce waves. • A more stable environment will offer protection against sea-level rises.	(1 mark A) Any correct action
Wombat	State two ways the wombat habitat is changing due to climate change. (2 marks K/U) • Hotter • Drier How does this affect the wombats? (2 marks K/U) At least two points mentioned; • Less vegetation for them to eat • Lower reproduction rates • Harder to survive	(2 marks K/U) • Wombat jaws can adapt to different vegetation. • Could possibly be translocated to areas of different vegetation.	(1 mark A) Any correct action

Frogs	What characteristic do frogs (and all amphibians) have that make them at high risk for climate change issues? (1 mark K/U) Ectothermic (cold-blooded) How will other species in the ecosystem be affected if we lose frogs? (2 marks A) • More insects as no frogs eating them • Other species who feed on frogs will lose food source	(2 marks K/U) • Assisted gene-flow. • Frogs that can tolerate drier conditions are being selectively bred.	(1 mark A) Any correct action
Coral reef	What species do coral live in a symbiotic relationship with? (1 mark K/U) Algae When this species is lost from the coral it is called ... (1 mark K/U) Coral bleaching Not only are oceans getting warmer but they are also getting more ACIDIC this causes problems for animals who have to build shells and external skeletons. (1 mark K/U)	(2 marks K/U) • Algae and seagrasses use carbon dioxide for photosynthesis. • Research going on now to see if growing seaweed can help slow ocean acidification.	(1 mark A) Any correct action

Lionfish	Lionfish are an example of an... (1 mark K/U) Invasive species The increase in water temperature has allowed them to increase their range. They are successful as they have no natural predators. They are in competition with native species. (1 mark K/U)	(2 marks K/U) Two of the following; • Fishermen are encouraged to catch lionfish. • Lionfish traps in deeper waters. • Creating a market for lionfish to be eaten by humans.	(1 mark A) Any correct action
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