



Pushing Boundaries

'Every individual, no matter how small, really can change the world!'











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8 MILLION TONNES OF PLASTICS LEAK INTO THE OCEAN EVERY YEAR

Equal to dumping one garbage truck into the ocean every minute

There are over 150 million tonnes of plastics in the oceans today

Advance notice: As soon as possible, please can you bring a plastic bottle in to school.

Key Vocabulary		
Global Warming	The long-term rise in the average temperature of the Earth's climate system.	
Activist	A person who campaigns to make a social change.	
Biomes	A natural area of plants and animals that have common characteristics for the environment they exist in. They have formed in response to a shared physical climate.	
Sustainability	Ways of providing the best for people and the environment both now and in the indefinite future.	
Climate zones	Areas with distinct climates that are home to a certain variety of animals and plants.	
Weather system	The movement of warm and cold air across the globe which determines the type of weather we have.	
Human impact	Changes to the physical environment and ecosystems based on human activities	
Environment	The surroundings or conditions in which a person, animal, or plant lives or operates.	
Vegetation	Plants considered collectively, especially those found in a particular area or habitat.	
Landscapes	All the visible features of an area of land, often considered in terms of their aesthetic appeal.	

Key Facts about our Earth Heroes

This term we are going to be studying inspiring individuals who have each in their own way fought for ways of improving our planet. Here is some key information about these inspirational people.

Sir David Attenborough



David Attenborough is a naturalist and TV broadcaster. He was born on May 8, 1926, in a suburb of London, England. After studying the natural sciences at the University of Cambridge, David Attenborough began his career at the BBC. Attenborough has since written, produced, hosted and narrated countless award-winning, nature-focused programs and has devoted his life to celebrating and preserving wildlife. Attenborough's lifelong commitment to the natural world has also led him toward ecological activism both on the air and offscreen. He is a patron of the organisations Population Matters, which examines the impact of human population growth on the natural world, and the World Land Trust, which buys rainforests around the globe with the aim of preserving their wildlife. David Attenborough is also the most travelled person in recorded human history and is the oldest person to have ever visited the North Pole. But perhaps the most fitting tribute of all, several species of plants, insects and birds have been graced with Attenborough's name, ensuing that it will live alongside the many creatures that he has spent his life celebrating and protecting.

Melati and Isabel Wijsen



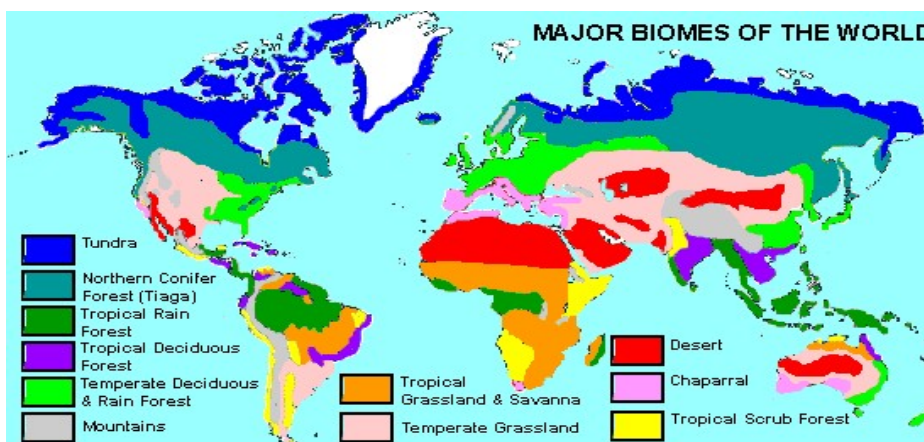
Melati and Isabel Wijsen started Bye Bye Plastic Bags at the ages of 10 and 12, after being inspired by a lesson in school about significant people, like Nelson Mandela, Lady Diana, and Mahatma Ghandi. The sisters returned home that day and asked themselves, 'What can we do as children living in Bali, NOW, to make a difference?' Bye Bye Plastic Bags was born in 2013 and has now grown into a well known international movement of inspiration, youth empowerment, and of course, saying NO to plastic bags. Their mission is to empower people to do what is right through education, campaigns, and political meetings. Start making that difference one bag at a time!

William Kamkwamba



William Kamkwamba was born August 5, 1987 in Dowa, Malawi, and grew up on his family farm in Masitala Village, Wimbe. Due to severe famine in 2001, his family lacked the funds to pay the \$80 in annual school fees and William was forced to drop out of school. At 14, rather than accept his fate, William started borrowing books from a small community lending library. He borrowed the book, *Using Energy*, which depicted wind turbines on its cover. He decided to build a windmill to power his family's home. His prototype was manufactured from a range of materials. After hooking the windmill to a car battery for storage. William was able to power four light bulbs and charge neighbours' mobile phones. Subsequent projects have included clean water, malaria prevention, solar power and lighting for the six homes in his family compound; a deep water well with a solar powered pump for clean water, a drip irrigation system, and the outfitting of the village team Wimbe United with their first ever uniforms and shoes. Since receiving their sun and wind-themed uniforms, the team has been on a winning streak that has brought the village together with pride.

"There is no question climate change is happening. The only arguable point is what part humans are playing in it." Sir David Attenborough.



Did you know?

Scientists estimate that since the Industrial Revolution, human activity has caused the Earth to warm by approximately 1°C. While that might not sound like much, it means big things for people and wildlife around the globe.

