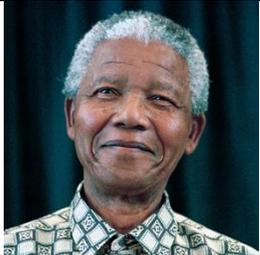




## How have superheroes changed the world?

Powerful knowledge		Vocabulary	
		Tier 2	Tier 3
	<p>Mary Seacole cared for people in the Crimean War. She had applied for a job with Florence Nightingale but wasn't allowed because she was black. This didn't stop her. She rode into battle to nurse wounded men from both side of the war. She broke expectation to travel the world, run businesses and help those in need, even in the most dangerous places.</p>	Invention	Legacy Hero Heroin
	<p>Florence Nightingale was a nurse in the Crimean War. She helped to care for wounded soldiers and made important discoveries that it was actually the dirty hospital and the germs there that was killing soldiers, not their injuries from battle. She helped people value nursing as an important job.</p>		
	<p>Nelson Mandella was the President of South Africa. Before then though, he campaigned for equal rights for all, whatever their race or colour of their skin. He said it was unfair how non-white people were treated in South Africa. He was put in prison for a long time for his opinions. He didn't give up and was eventually released and went on to make the laws fair for everyone.</p>		
	<p>George Stephenson was an engineer and inventor. He's known as the 'Father of Railways' He developed railways for people to use. His inventions helped make modern railways possible.</p>		

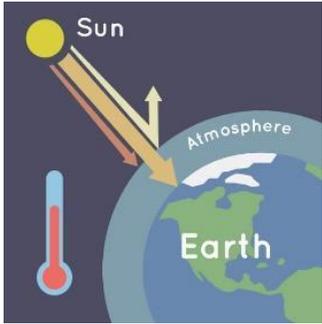


## How have scientists changed the world?

Powerful knowledge		Vocabulary	
		Tier 2	Tier 3
	<p>Florence made nursing a respected profession for women. In 1860 the Nightingale School for Nurses opened in London. This was the first school set up to train nurses to work in hospitals. Florence campaigned to improve health standards and wrote over 200 books and pamphlets on hospital planning. Some of her ideas helped influence practices which are still in existence today.</p>	respect(ed) campaign discovery	
	<p>David Attenborough studied zoology at Cambridge University. He campaigns and educates people about how to protect the environment and the damage humans are causing to the planet. The 'Attenborough Effect' is the name used to describe the good things people are doing to help the environment.</p>		
	<p>Jane Goodall studied chimpanzees and discovered they make tools. Her discoveries made scientists realise that things they thought only humans did were actually also done by other animals.</p>		

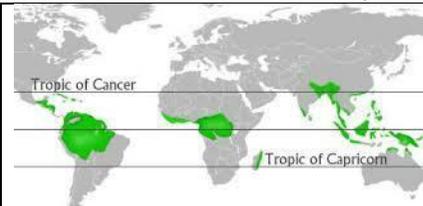


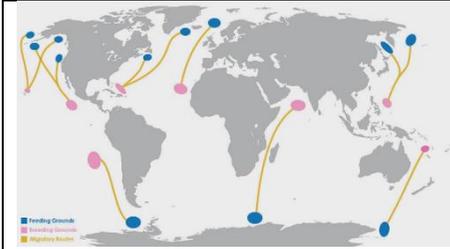
## Can I be a superhero?

Powerful knowledge		Vocabulary	
		Tier 2	Tier 3
	<p>Pollution caused by humans from things like cars, planes, factories and some power stations means too much heat from the sun is trapped in our atmosphere. This means the planet is heating up which is causing floods, fires, storms and the loss of animal habitats.</p>		
	<p>As David Attenborough show sus, when people know about a problem, they want to help fix it. Teaching others about the climate emergency is a powerful way to help them change.</p>	<p>campaign</p>	<p>atmosphere pollution</p>
	<p>Greta Thunberg is leading a campaign by children to tell countries to lower the amount of pollution they make to help save the planet.</p>		



## Which are the superheroes of the animal kingdom?

Powerful knowledge		Vocabulary	
		Tier 2	Tier 3
	<p>Chimpanzee live in the rainforest. They are adapted to thrive there.</p> <p>Long Arms: make it easier to move around in the trees, reach and swing from branches to move quickly.</p> <p>Thumbs and big toes: essential to help them grip the branches with their hands and feet.</p> <p>Colour vision: work out which food is good to eat and which to avoid.</p> <p>Hearing: good hearing helps them hear predators coming and communicate with each other.</p> <p>Large brain: they are intelligent and can make and use tools. They can make decisions by thinking carefully.</p> <p>Expressive faces: This helps them communicate, such as about a threat or danger.</p>	<p>communicate</p> <p>intelligent</p>	<p>habitat</p> <p>adaptation</p> <p>predator</p> <p>pollute</p>
	<p>Humpback whales live in the oceans of our planet. They are adapted to thrive there.</p> <p>Blubber: A thick layer of fat helps keep them warm in cold oceans. About a quarter of the whale's weight is blubber.</p> <p>Blowhole: like nostrils, but on the top of its body so it's easier to breath when they come to the surface.</p> <p>Lungs: They need to be able to stay underwater for a long time. They have huge lungs that take nearly all the oxygen from the air they breathe.</p> <p>Sleep: They can never fully sleep or they would drown. Instead, they rest one half of their brain at a time.</p> <p>Hearing: They have excellent hearing so they can sense prey and communicate to other whales far away. They can make sounds louder than a jet engine.</p>		
<p>Humpback whales migrate to warm, tropical waters near the equator to breed. They then return to the rich feeding waters near the poles. They have the longest migration of any mammal. Rubbish we throw</p>	 <p>Chimpanzees live in rainforests. The rainforests are only found near the equator where it is warm and wet enough for the species found there to grow. If we cut down the rainforest, we destroy the chimpanzee's habitat.</p>		



away can end up  
in the ocean and  
pollute the  
whale's habitat.