

Apple TV+ Documentary <u>The Year Earth Changed</u> Teacher's Worksheet Guide 2021 - 48 minutes

Animal/Location	Human Impact discovered	Changes we can make
White Crowned Sparrow San Francisco, California, USA	 Traffic reduced on Golden Gate Bridge allows mating calls to be heard and hope to have best breeding season in years. 	
Sea Turtles Loggerhead Juno Beach, Florida, USA	 Reluctant to visit ever-busier beaches to lay eggs Average nesting success rate has been 40%, 2020 with beaches closed it was 61% 	- nightly beach closures
Humpback Whales South East Alaska, USA	 ship noise Now 25 times quieter underwater Talking to each other more often and in new ways Mother and calf communication increased Elaborate conversation Communication across greater differences and leave calfs alone to feed and yet still hear calf if it needs her Nursing mothers can hunt with other animals to get energy to feed calf - can do this more often. In the past as few as only 7% of calfs made it to adulthood. Chance this year many more will survive 	 ask vessels to go slower Group vessel traffic to have a smaller footprint to protect underground soundscape and the whales
Dolphin Hauraki Gulf, New Zealand	 triple their range of communication now ocean traffic is down 17% 	
Killer Whale Salish Sea, Vancouver, Canada	 4x reduction in ship noise Killer whales can now use their sonar more effectively in hunting their prey. 	

Sika Deer Nara, Japan Capybara Buenos Aires, Argentina	 meadows used for food have been taken over by buildings Normally shy animals, begged for food from tourists at temples Bowing head for food - rice bran crackers With people gone had to find food, older generation lead group to where they use to feed. New diet made them healthier, less plastic trash which kill deer enjoy eating in former habitat 	
Leopard Africa	 safari season cancelled in Africa Leopard lives in tourist lodge and hunts during the day (Usually nocturnal) 	
African Jackass Penguins Cape Town, South Africa	 breeding season head out to sea to go fishing in early morning Chicks eat 15% of their body weight every day Delivering the catch to the chicks is a problem due to beaches being packed with people when they returned from fishing Needed to wait off shore until sunset when the people left the beach With the beaches deserted the penguins can head back after only a few hours, feed their chicks and can go out fishing again. Chicks fed 2 r 3 times a day - healthier chicks and can raise a second cluck of chicks We thought penguins and people were getting along fine, in reality people were impacting the penguins Penguin population has dropped 70% in last 30 years 	



Cheetahs	 the noice from safari vehicles and cameras made it hard for the mother to communicate with her cubs Soft chirping call to tell cubs to join her at a kill, but can't do it too often or the rival animals will hear it and take her kill. 	- Recommendations to promote good conduct among tourist and guides.
Maasai Mara, Kenya	 All the noise mask natural cue cheetahs need to survive. Mother make fewer calls, cheetah cubs are doing better In the past only 1 of 3 cubs would survive, now more cubs that are over 3 months old 	
Mountain Gorillas Bindi National Park, Uganda	 less disturbance in 2020, gave birth to twice the number of babies 	
Spiny Seahorses Dorset, England	 numbers not seen for at least 10 years Seagrass home recovers from damage caused by visiting boats - 	
Rhinos Laikipia, Kenya	 no rhinos were killed for their horns for first time since 1999 	
Asian Elephants Assam, India	 elephants eat 150 Kilos of food a day Only 5% of natural habitat remaining. Forest home replaced by farmland Elephants raid crops to survive; farmers loose half rice crop to them In India elephants have trampled people while searching for food in villiages, 400 humans and 100 elephants killed each year 	 city workers who have returned to village due to lockdown aer providing the extra hands for a local conservation trusts project to plant crops for wild elephants. Along forest edge, plant a buffer zone of fast growing wild rice and grasses for the elephants to eat 500 people helped transform 400 acres Elephants eat only crops planted for them, did not go into village or raid farm crops.

