**MYP-3 SCIENCE SUMMER HOLIDAY HOMEWORK**

**Report on Charles Darwin and his research**

Charles Robert Darwin was and is still considered a renowned naturalist, biologist and geologist; he was born on the 12th of February, 1809 in England and died on 19th April, 1882 in Downe Kent. Charles Darwin is mainly known for his contribution to the evolution of science and mankind and his theories and research on evolution has made a strong foundation to science. Darwin’s childhood and educational era was not very smooth, he was born in a big family where he had 5 siblings. Sadly, his mother died when he was 8 years old and he was then taken care of by his sisters and father. He learned a lot about human psychology because of his father’s medical research and work, Darwin’s current school was focusing on Classics and literature; he hated this type of education since he wanted to pursue science so he was condemned by his school principle and was also nicknamed ‘Gas’ by his schoolmates because he used to do scientific experiments in school. His father noticed he wasn’t interested in his current education type so he sent Darwin to study medicine in Edinburgh University. In Edinburgh, he learnt so many new concepts correlating with his interests like continental sciences, chemistry, biology, geology etc. In his time in Edinburgh, going through his books, he realized that animals share the entire human mental faculties and this resulted in the start of his scientific theory. Once he started sharing this knowledge with his professors and classmates, he was witnessing social penalties and restrictions for holding deviant views since that materialism was not appreciated there. One day when he was collecting sea slugs and sea pens from the shore, he was encountered by Robert Edmond Grant a famous evolutionist and biologist. Grant started to mentor Darwin so that he could achieve his endeavours. Charles Darwin’s father thought that he will persue his dreams of nature by the church education so he shifted his son to the Christ’s church. He learned a lot of new concepts there and even managed to get 10th place in the Bachelor of Arts degree. One day, Darwin was offered to go to a geologic field trip to Whales and he agreed to go. This trip was known as the beagle voyage; Darwin didn’t go to this trip as a naturalist, instead he went to accompany the captain of the ship. He was imprisoned in the ship for 5 whole years but since he was a naturalist, he could take extended periods of the ship to pursue his own interests so he actually spent 18 months on the ship. Once Darwin arrived the River Plate on July 1832, he joined a group of armed sailors to retake the rebel held fort. He saw and experienced were disturbing things there and that made him realize that there difference between a savage and a civilized person is greater then between a predator and a prey. Fossil information reveals that Darwin had grown interest towards man-handling bones and skulls of dead animals and made armour and weapons with them. The land started to change and rise, after the beagle surveyed the Falkland islands, then it went to the west coast of South America, here he had to climb 4000m up the Andean foothills and was surprised by the forces that could raise such mountains. In a span of 2 months, Darwin saw 2 volcanic eruptions and as he lay on the forest floor, the ground started to shake violently and he saw the city of Concepcion get turned to rubble in front of him. Darwin then realized that the continent was thrusting itself up and imagined how many eons it had taken to do so. He then began to think in deep terms of time. He saw any different species of the same bird in every island he went to and all of those islands had different adaptive qualities. This was the starting of the theory of evolution as Darwin though that each animal/human starts of the same but the interactions in their life and some small variations change the complete make-up of the person which is basically evolving. Once he got back from the voyage he started to deeply research on this topic and wrote 2 books full of notes. He eventually became a urban businessman. Scientists and geologists proved the theory correct and there were tons of plausible explanation towards the theory’s favour every day. He started to research more into this by learning extinction, adaptation, evolutionary studies etc. Darwin had no intention to publish his works and he though that when he’ll die, he wants his work published then so he told his brother to do so and when Darwin died, his theory was publically announced by his brother and it became a landmark in scientific discoveries.