



INDIAN SCHOOL DARSAIT DEPARTMENT OF ENGLISH



Subject : English	Topic : THE MAKING OF A SCIENTIST	Worksheet .No. : 18
		Date : _____
Name of the Student : _____	Class & Division : _____	Roll Number : ____
Read the extracts given below carefully and answer the questions that follow:		4
(a)	<i>He would catch a female monarch, take her eggs, and raise them in his basement through their life cycle</i>	
	(a) Who is 'he' in this extract? Richard Ebright is 'he' in this extract. (b) Why does he raise butterflies? He raised butterflies to study their migration pattern. (c) Find a synonym for the word 'rear' from the extract given above. 'Raise' is the synonym of 'rear' from the extract. (d) What part of speech is 'them'? It is a pronoun	
(b)	<i>"It was really a sad feeling to sit there and not get anything while everybody else had won something."</i>	
	(a) Who is the speaker of the above lines? Richard Ebright is the speaker of the above lines. (b) Where was he competing at? He was competing at a county science fair. (c) Find a word from the extract which is the opposite of 'nobody'. 'Everybody' is the opposite of 'nobody' from the extract. (d) Write a synonym of 'sad'. Its synonym is 'Gloomy'.	
Answer the following questions in 30-40 words:		2
i)	What rare achievement did Richard manage at the age of twenty-two? Answer: Richard had a rare honour at the age of twenty-two. He wrote an article with his friend about a theory of how cells work. The article was published in the scientific journal 'Proceedings of the National Academy of Science.' No one had this achievement at such a young age before him.	
ii)	Richard became a collector at an early age. How? Answer: Richard was the only child of his parents. He had no company at home to play with. So, he started collecting things in his spare time. He would collect coins, fossils, rocks and butterflies as a hobby.	
iii)	How did 'The Travels of Monarch X' prove a turning point in his life? Answer: Richard was bored with collecting butterflies. At this time, his mother got the book 'The Travels of Monarch X' for him. After reading the book, he studied the migration of butterflies and it opened the world of science to him.	
iv)	Why did Richard lose interest in tagging butterflies? Answer: Richard raised thousands of butterflies, tagged them and released them to study their migration. But soon, he lost interest because only two of his tagged butterflies were returned to him and they had travelled only seventy-five miles.	

v)	Mention any two of Ebright's contributions to the world of science. Answer: Ebright discovered a hormone that was necessary for the growth of a butterfly. His other important contribution proved to be his study of how cells read their DNA.	
vi)	Hobbies play a very important role in one's life; elaborate this with reference to "The Making of a Scientist". Answer: Richard Ebright started collecting butterflies as a hobby. This led him to research and discover many things. Hence, hobbies play an important role in one's life.	
vii)	What were the factors which contributed in making Ebright a scientist? Answer: Three qualities of Ebright which contributed were a first rate mind, a sense of curiosity and a will to win for the right reason.	
	Answer the following question in 100-120 words:	8
1.	Richard's mother had a great influence on him. Discuss. Or Discuss the role of Ebright's mother in making him a scientist. Answer: Richard's mother played a huge role in making him a great scientist. She would take him on trips to encourage learning. He was a single child. After his father died, his mother made him the focus of her life. She would buy him all kinds of microscopes, telescopes and other equipment. After dinner, she gave him problems to solve. This helped Richard to learn a lot. She was his only companion for a long time. It was his mother who got him the book 'The Travels of Monarch X'. This book opened the world of science for Richard. She also wrote to Dr Urquhart to guide her son. The scientist helped Richard and guided him. Thus, his mother actually shaped him into an extraordinary scientist.	
2.	Ebright's study of monarch pupas had a far reaching impact. Elaborate. Answer: For a long time the scientific community had regarded the bright spots on a monarch pupa as purely ornamental. But Dr Urquhart did not believe it. Nor did Richard. He started his experiments on the monarch pupa. He built a device with the help of a friend. This led to the discovery of a hormone. Richard proved that the hormone was necessary for the growth of the butterfly. This discovery got him many honours. Also, it led to another important study. He began working on how cells read their DNA. DNA is the carrier of heredity and is called the blueprint of life. His theory could find answers to many cancers and diseases.	
3.	Richard Ebright displayed a well-rounded personality. Do you agree? Elucidate in the context of the given text. Answer: Richard's genius was obvious by the time he was in his second grade. He managed to collect all twenty-five species of butterflies around his hometown and classify them. He also loved to collect coins, fossils and rocks. Science was not his only passion. He was an active member of his school's oratory club and model United Nations club and was an effective debater and a public speaker. He loved photography as well. He was an enthusiastic canoeist and an all-around outdoors person. Learning was easy for him. So he found it simple to devote time and energy to many other interests. He became a champion in whatever he did. He believed in the spirit of competition to win. But, he did not wish to defeat others just to win. He wanted to win to do his best. Thus, he displayed a well-sounded personality.	