OFFICIAL ABSTRACT and CERTIFICATION

The Effect of Color and Lighting on the Feeding Habits of Birds					Category Pick one only — mark an "X" in box at right
Zeeshan Memon					Animal Sciences
Valley Stream South High School, Valley Stream, New York, United States Each year billions of animals are affected by various changes being introduced					Behavioral & Social Sciences
into the environment such as deferestation and urbanization. This experiment was					Biochemistry
					Biomedical & Health Sciences
	,	Biomedical Engineering			
environment eliminating all external factors such as weather, lighting, temperature and risk factors. This was done by having four cages. First, random colors were set in each cage. Then it was noticed that some feeders were getting more light than others, so then, for the next trial of data collection, the feeders were placed in random order from left to right and changed location every two days which is the frequency the data was collected. After 7 day trials of each data set, full spectrum					Cellular & Molecular Biology
					Chemistry
					Computational Biology & Bioinformatics
lights were set on top of the cages. Birds can see in ultraviolet which is something humans cannot so I wanted to determine if the lighting affects their color					Earth & Environmental Sciences
preference as well. Results showed that they do not show a preference in color.					Embedded Systems
					Energy: Sustainable Materials and Design
					Engineering Mechanics
					Environmental Engineering
					Materials Science
1.	As a part of this research project, the student directly handled, manipulated, or interacted with (check ALL that apply):				Mathematics
					Microbiology
	☐ human participants ☐	☐ potentially hazardo	us biological agent	:S	Physics & Astronomy Plant Sciences
	□ vertebrate animals □	☐ microorganisms	□ rDNA	☐ tissue	Robotics & Intelligent
2	I/we worked or used equipment	· ·		Yes □ No	Machines
	or industrial setting:				Systems Software
3.	This project is a continuation of	previous research.	■ Yes	□ No	Translational Medical Sciences
4.	My display board includes non-published photographs/visual ☐ Yes ■ No depictions of humans (other than myself):				
5.	This abstract describes only procedures performed by me/us, ■ Yes □ No reflects my/our own independent research, and represents one year's work only				
6.	. I/we hereby certify that the abstract and responses to the above statements are correct and properly reflect my/our own work. □ No				,
This stamp or embossed seal attests that this project is in compliance with all federal and state laws and regulations and that all appropriate reviews and approvals have been obtained including the final clearance by the Scientific Review Committee.					