CALIFORNIA STATE SCIENCE FAIR 2016 PROJECT SUMMARY

Name(s)	Project Number
Isabella C. Welch	
Project Title	30830
How Weight Affected the Flight Dynamics of Quetzalcoattus northron	
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Objectives/Goals Abstract	
Using "off the shelf" 3D & flight simulation software, I attempted to disc	over how weight effected the
flight distance of Quetzalcoatlus Northropi.	
Laptop Computer with Unity3D (3D Software) and a Flight Simulator plu	upin. Ferred two different
scientific weight models, Witton and Chatterjee & Templin, of the Quetz	alcoallys along with different
Results	
I found that a heavier model such as Witton#s, would fly the best and fur	thest. Quetzalcoatlus is thought
to have migrated very long distances and my data seems to support this t	eory.
By making use of inexpensive and open source virtual reality software and	nd tools, I used my research data
from previous years and visualize the results. This provided a way to understand the complexities of	
best and furthest. Quetzalcoatlus is thought to have migrated very long distances and my data seems to	
support this theory.	
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Summary Statement	
Using "off the helf" 7D & flight simulation software, I attempted to disc	over how weight effected the
flight distance of Quetzalcoatlus Northropi.	
Help Received	
Michael Bruce Habib, PhD: Research Associate at the Dinosaur Institute at the Los Angeles County	
Museum of Natural History	