

ų

Name(s)	Project Number
Robert L.P. Knight	
	22095
Project Title	$\sim$
The Effects of an Electromagnetic Field on Mealworms	
Abstract	
Objectives/Goals	
People are exposed to electromagnetic fields daily. When someone walks the under a power line, rings an electric doorbell or uses their computer they are	rough a metal detector, stands
electromagnetic field. It is usually not possible for a person to feel free a	e in an electromagnetic field.
Although no one knows for sure all the effects of electromagnetises on organ	ic meterial, some studies
have suggested an association between exposure and cancer. The purpose of if continuous exposure to an electromagnetic field will effect the lifesycle or	development of mealworms.
Methods/Materials	1
In this experiment one hundred mealworms are continuously exposed to all exposed to all exposed to a transformer. A contract of the second state o	electromagnetic field using
mealworms is exposed to all the same conditions except there is no electric c	surrent attached to the copper
wire. Results	
The results obtained showed significantly ( $p<0.005$ ) faster development to p	upa and beetle stages in the
experimental group. There were no differences in the physical characteristic	s and no difference in
mortality up to the first month of life.	
In conclusion, mealworms continuously exposed to an electromagnetic field have a more rapid	
development.	
$\sim$	
Summary Statement	
My project is about evaluating if there are any effects of an electromagnetic field on mealworms	
Help Received Dr. Edmund Capparelli, University of California, San Diego, for help with the statistical analysis	
Dr. Edmund Capparelli, University of California, San Diego, for help with the statistical analysis.	