Risk Assessment Form (3)

Must be completed before experimentation.

Student's Name	Soyoun Moon, Lakxshanna Raveendran
Title of Project	The effect of sulfur dioxide on the olfactory memory of Western Honeybees (Apis mellifera

To be completed by the Student Researcher(s) in collaboration with Designated Supervisor/Qualified Scientist: (All questions must be answered; additional page(s) may be attached.)

- 1. List all hazardous chemicals, activities, or devices that will be used; identify microorganisms exempt from pre-approval (see Potentially Hazardous Biological Agent rules).
 - Approximately 10 ml of diluted sulfuric acid(I) will be dripped onto approximately 8g of sodium sulfite(s), which will generate a dry gas, sulfur dioxide(g). We will use the sulfur dioxide in our experiment.
- Identify and assess the risks involved in this project.
 Sulfur dioxide can cause severe skin burns and eye damage, toxic if inhaled.
 Honeybees have the potential to sting.
- 3. Describe the safety precautions and procedures that will be used to reduce the risks.
 - Sulfur dioxide should be handled only in a well- ventilated area, preferably a hood with forced ventilation. Personnel handling sulfur dioxide should wear chemical safety goggles and/or plastic face shields, approved safety shoes, and rubber gloves. Honeybees would be handled with caution by placing container in freezer before handling to avoid stinging. Once knocked out, they will be tethered to their apparatus for testing. Gloves will be worn at all times throughout the experiments.
- 4. Describe the disposal procedures that will be used (when applicable).
 - In cases of a spill: approach suspected leak areas with caution, remove all sources of ignition. Toxic, corrosive vapor can spread from the spill. Ventilate area or move container to a well-ventilated area. Disposal: do not attempt to dispose of residual or unused quantities. Return container to supplier.
- 5. List the source(s) of safety information.
 - Safety data sheet for chemicals Chemical hygiene and safety training by teachers

To be completed and signed by the De l agree with the risk assessment and safety pre Plan/Project Summary and will provide direct	ecautions and procedures	(or Qualified Scientist, described above. I certify the	when applicable): nat I have reviewed the Research	
Dr. Daniel Kramer	aniel J. K	anh	6/12/2019	
Designated Supervisor's Printed Name	Signature		Date of Review (mm/dd/yy)	
Science Educator, Commack High S	School	dkramer@commack.k12.ny.us		
Position & Institution		Phone or email contact information		
Ph.D. Industrial Chemist				
Experience/Training as relates to the stude	ent's area of research			