

Risk Assessment Form (3)

Must be completed before experimentation; recommended for all projects. May be required for projects involving Human Participants, Hazardous Chemicals, Materials or Devices or Potentially Hazardous Biological Agents.

Student's Name(s) _____

Title of Project Do Different Locations and Conditions affect Bacterial growth on toothbrushes

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. Identify and assess the risks and hazards involved in this project.

see attached

2. a) List all hazardous chemicals, activities or devices to be used; b) identify and list all microorganisms to be used that are exempt from pre-approval (see Potentially Hazardous Biological Agent rules).

See attached

Teacher will be using the pressure cooker.

3. Describe the safety precautions and procedures that will be used to reduce the risks.

See attached

4. Describe the disposal procedures that will be used (when applicable).

see attached

i. List the source(s) of safety information.

To be completed and signed by the Designated Supervisor (or Qualified Scientist, when applicable):
I agree with the risk assessment and safety precautions and procedures described above. I certify that I have reviewed the Research Plan/Project Summary and the International Rules, including the science fair ethics statement and will provide direct supervision.

Joyce Stark
Designated Supervisor's Printed Name

Joyce Stark
Signature

02/09/24
Date of Review (mm/dd/yy)

M.S. Biology
Experience/Training as relates to the student's area of research

Science Teacher / Sunnyside H.S.
Position/Institution

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Risk Assessment; Form 3

1. Clorox 20% solution and ethanol.
 2. The risks of the project are sickness. We will minimize the bacteria from spreading.
Allergic reaction - gloves will be worn to keep the bacteria and fungi away from the skin.
Fire - to prevent a fire, the alcohol burner cap will be placed on top of the flame.
Contamination - we will use the isolation chamber to prevent contamination from happening. Clorox - gloves will be worn to keep it off my clothes. I will be using 20% clorox, but it is still dangerous because of its strong odor and it will burn the eyes if they are not protected. Ethanol - will be in the isolation room because it is so flammable. When I am finished, I will put the alcohol cap back on when I am done.
 3. I will wear gloves, wear goggles and an apron to protect myself from the bacteria and fungi, and to keep it from spreading. I will wash the tables and isolation chamber with 20% clorox bleach before and after testing. I will wash my hands with soap and water before and after testing, and I will sterilize the goggles in UV light after testing. I will use the Sunnyside High School's isolation chamber, all the petri dishes will be taped shut during the experiment, and the inoculating loop will be sterilized in a flame to kill any bacteria before and after. I will use a dilute solution of clorox, not a full strength clorox to keep it from burning me. Alcohol is flammable. I will keep it in the isolation chamber, and I will put the alcohol cap back on when I am finished using it.
 4. When the experiment is finished, the petri dishes will be soaked in 20% bleach for an hour and disposed of in the biohazard area.
 5. Ethanol - Disposal 26B (Flinn) Small quantities can be poured down the drain. Sodium Hypochlorite (clorox) - Disposal 26B
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