

# Smart STEM Challenge

## ORGANIC INSECTICIDE

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### ABSTRACT:

This paper explores on how to make an ORGANIC INSECTICIDE out of simple ingredients commonly found in your kitchen and always available in the market. The motivation to make an ORGANIC INSECTICIDE is from encountering many different insects at home and garden that could cause diseases. Insecticide sold in the markets are usually expensive and sometimes harmful to people so we thought to make a homemade ORGANIC INSECTICIDE that will be effective to eliminate harmful insects but human friendly and not poisonous to people.

The aim of this project is to learn how to make an ORGANIC INSECTICIDE at home. If we can learn to make our own ORGANIC INSECTICIDE, we can save money and also we can avoid from adding harm to our environment by using aerosol insecticide. Also, if we can learn to prepare this at home, we can introduce this to younger generation, even the kids, only with proper supervision.

The presence of too many insects at home and in the garden, but buying insecticide from the market is quite expensive, made us decide to make a cheap and homemade ORGANIC INSECTICIDE by extracting juice out of the onion, garlic, moringa and chili.

After producing the ORGANIC INSECTICIDE, we tried it to cockroach. The insect died within 53 seconds after 8x sprays of the ORGANIC INSECTICIDE. So therefore we conclude that the ORGANIC INSECTICIDE is effective. If this is to be done by every household, we can all have a clean environment without insects roaming around our house. We can avoid from getting sickness brought by the insects and we can have a cleaner neighborhood. Using the common and cheap ingredients for ORGANIC INSECTICIDE, we can save money and use it in more important things.

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