

# Neshaten Home Economics Lab

The home economics lab is a mainstay in [Neshaten](#) schools as it is used by the schools to teach students the importance of cooking safety and how to cook properly, along with making various food stuffs such as cakes or even regular breakfast, lunch, and dinner type of dishes. The lab has been around since long before the Neshaten restarted their society.

## Design

The home economics lab is shaped in the form of a decagon, with enough tables to allow up to eight classes to be taught at any one time. These tables have enough room for only four people, with equipment stored in cabinets located underneath the tables themselves while pots and pans are stored in nearby cabinets. There are fire-suppression systems located in the ceiling to help dose any fires that erupt, along with drawers that have aprons and spare school uniforms.

Three doors allow access to the room, two from adjoining hallways, and one that leads outside of the room in the event of an emergency. Ovens, and other items needed in such a room are also located under the table so that students have easy access to it.

## Civilian Emergency Systems

The room is equipped with a number of emergency systems, including fire suppression, CO2 monitors, gas and other sensors to help protect whomever is using the room from potential harm. These systems are linked to a schools main office so that they can be easily monitored and responded to.

### Fire Systems

Internal fire suppression systems utilize a specialized kind of foam that is an all in one, the kind of foam used is designed to smother gas, liquid, electrical and chemical fires.

### Co2 Systems

Designed to detect the presence of Carbon dioxide through the use [NDIR](#).

### Gas Detectors

Designed to detect gas emissions from the natural gas, the gas is also mixed in with a chemical agent that reacts to a person's sense of smell so that they can more easily detect its presence.

## Groundquake Sensors

A specialized sensor designed to monitor the movement around it, the sensor is smart enough to tell the difference between regular - everyday movement such as that from people and from more irregular movement such as that which comes from ground quakes. These sensors are interconnected with a central monitoring station located somewhere near a school, this means that if the outside sensors pick on the movement 'first', then the sensors inside of the building will emit an emergency signal alerting individuals of an approaching quake.

## Other sensors

There are other sensors found within the CES which are designed to serve functions different from those listed above, they are more wide-range systems designed for multiple roles such as measuring air and wind pressure, rain water, along with the electrical current in the air which can sometimes predict whether a lightning strike might occur.

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Last update: **2023/12/21 04:24**

