# School Entry Form for the “High School Chemistry Festival 2019”

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| **SCHOOL** | | | | | |
| School Name: | | | | OUR OWN ENGLISH HIGH SCHOOL, SHARJAH | |
| Name of the School Principal: | | | | Ms.ASMA GILANI | |
| School Mailing Address: | | | | PO.BOX - 2676      City: Sharjah | |
| School E-mail: | | | | info\_oos@gemsedu.com | |
| **SUPERVISING SCIENCE TEACHER** | | | | | |
| Name of the Supervising Science Teacher: | | | | | Ms. Reena.R.S |
| Supervising Science Teacher Email: | | | | | reena.s\_oos@gemsedu.com |
| Supervising Science Teacher Phone: | | | | | 065598411 |
| Supervising Science Teacher Mobile: | | | | | 0559506641 |
| Title of the Project: | | Plastic Fuel. | | | |
| **PARTICIPATING STUDENT(S)** | | | | | |
| **Student 1** | First Name: | | RITHIKA | | |
| Last Name: | | KATHIRVEL | | |
| Grade: | | 11 | | |
| Age: | | 16 | | |
| Email: | | rithika.kathir2002@gmail.com | | |
| **Student 2** | First Name: | | SINDHUJA | | |
| Last Name: | | SUDHAKAR | | |
| Grade: | | 11 | | |
| Age: | | 16 | | |
| Email: | | sindhuja.sudhakar99@gmail.com | | |
| **Student 3** | First Name: | | Adithya | | |
| Last Name: | | Shajeev | | |
| Grade: | | 11 | | |
| Age: | | 16 | | |
| Email: | | adithyaak2002@gmail.com | | |

# Project Details

1. Title of the Project عىوان المشزوع

Fuel from Plastic- Plastic Fuel.

1. Present here a brief abstract of your project

## وبذة مختصزة عه المشزوع

Plastics are shredded and then heated in an oxygen-free chamber (known as pyrolysis) to about 400 degrees celsius. As the plastics boil, gas is separated out and often reused to fuel the machine itself.

The fuel is then distilled and filtered. Because the entire process takes place inside a vacuum and the plastic is melted – not burned, minimal to no resultant toxins are released into the air, as all the gases and or sludge are reused to fuel the machine.

3.Project Objectives أهداف المشزوع

This project aims to produce fuel from plastics which reduces the plastic waste generation.

4. Potential Project Impacts

أهميت المشزوع

1. Importance to Community (Socio-economic impacts)

المساهمت فً خدمت المجتمع

* Reduces the amount of waste plastic produced.
* Provides a cleaner alternative method for the production of fuel.
* Solves the energy crisis in the growing world.
* Produces fuel with low Sulphur content hence being less harmful.
* Gases evolved in the process are used to further refuel the machine.

1. Possibility of Innovation and potential commercial product

## احتماليت الابتكار و الحصول على مىتج تجاري

The fuel produced is much cheaper, safer and cleaner than the ordinary fuel produced. This gives consumers access to good quality fuel at lower rates.