

## TU Dublin – School of Food Science and Environmental Health

### ChemisTRY Camp 2022: Investigating food labels Camp

The School of Food Science and Environmental Health, Technological University Dublin (TU Dublin), is delighted to offer a one-day Science Camp for Transition Year or 5<sup>th</sup> year students in May 2022. The **Investigating food labels** camp will run for a whole day on **9<sup>th</sup> May 2022**, starting at 9:30am and finishing at 4pm in the Central Quad building of our Grangegorman Campus, Dublin 7.

Students will bring a beverage to test for its caffeine content along with a variety of other drinks using HPLC. Experiment two will focus on a food macronutrient, fat, and measuring its content in foods. The students will use three Soxhlet apparatus to determine the fat content of chocolate, thus displaying the need for repetitions in sciences when the results are compared to each other and those on the packaging. Finally, students will use the FRAP assay to measure the anti-oxidant properties of a variety of herbs commonly used in households from basil to rosemary.



Finally, students will part-take in tours of the laboratory facilities and the Grangegorman campus, the new world class home for Science in TU Dublin.

There is no fee for participation but spaces are limited in the camp. To express your interest in attending please register here <https://forms.office.com/r/eVUBEXeh5i>. Registration will remain open until the **15<sup>th</sup> April 2022**.

Applicants will be informed of the outcome of the application process by Monday 25<sup>th</sup> April 2022 and completed Parent/guardian consent will be required by 29<sup>th</sup> April 2022 to confirm acceptance of the offered place. Camp related queries can be sent to Amy Whelan at: [amy.whelan@tudublin.ie](mailto:amy.whelan@tudublin.ie)

## TU Dublin – School of Food Science and Environmental Health

### ChemisTRY Camp 2022: Pharmaceutical/Nutraceuticals Camp

The School of Food Science and Environmental Health, Technological University Dublin (TU Dublin), is delighted to offer a one-day Science Camp for Transition Year or 5<sup>th</sup> year students in May 2022. The Pharmaceutical/Nutraceuticals camp will run for a whole day on **10<sup>th</sup> May 2022**, starting at 9:30am and finishing at 4pm in the Central Quad building of our Grangegorman Campus, Dublin 7.

Aspirin is widely used medication for the treatment of fever, pain and inflammation. Its common name is acetylsalicylic acid, whose name comes from Salix, the willow family of plants, was derived from willow bark extracts. In folk medicine, willow bark teas were used as headache remedies and other tonics. Ancient Asian records show it was used 2400 years ago. Essential oil, a gift from nature, is an example of nutraceutical product, which are natural substances contained in many plant materials. Essential oils have been found to have various health benefits, including stress relief, inflammation/pain reduction, antibacterial and antifungal properties, etc. This Camp aims:

- to introduce you to the synthesis of one of the oldest medicines, aspirin
- to analyse the yield and purity of your aspirin using techniques you haven't used yet in your school
- to participate in an analytical competition and the winning team will get an award!
- to observe how essential oils are extracted from plant materials by laboratory demonstration



Finally, students will part-take in tours of the laboratory facilities and the Grangegorman campus, the new world class home for Science in TU Dublin.

There is no fee for participation but spaces are limited in the camp. To express your interest in attending please register here <https://forms.office.com/r/eVUBEXeh5i>. Registration will remain open until the **15<sup>th</sup> April 2022**.

Applicants will be informed of the outcome of the application process by Monday 25<sup>th</sup> April 2022 and completed Parent/guardian consent will be required by 29<sup>th</sup> April 2022 to confirm acceptance of the offered place. Camp related queries can be sent to Amy Whelan at: [amy.whelan@tudublin.ie](mailto:amy.whelan@tudublin.ie)

**TU Dublin – School of Food Science and Environmental Health**

**ChemisTRY Camp 2022: Environmental & Public Health Camp**

The School of Food Science and Environmental Health, Technological University Dublin (TU Dublin), is delighted to offer a one-day Science Camp for Transition Year or 5<sup>th</sup> year students in May 2022. The **Environmental & Public Health** camp will run for a whole day on **11<sup>th</sup> May 2022**, starting at 9:30am and finishing at 4pm in the Central Quad building of our Grangegorman Campus, Dublin 7.

Students will learn about environmental and public health issues that can impact our health. Through practical sessions students will learn about monitoring air quality by measuring particulate matter in the atmosphere, about water quality by analysis of home samples and finally noise exposure and its impact on their health.



Finally, students will part-take in tours of the laboratory facilities and the Grangegorman campus, the new world class home for Science in TU Dublin.

There is no fee for participation but spaces are limited in the camp. To express your interest in attending please register here <https://forms.office.com/r/eVUBEXeh5i>. Registration will remain open until the **15<sup>th</sup> April 2022**.

Applicants will be informed of the outcome of the application process by Monday 25<sup>th</sup> April 2022 and completed Parent/guardian consent will be required by 29<sup>th</sup> April 2022 to confirm acceptance of the offered place. Camp related queries can be sent to Amy Whelan at: amy.whelan@tudublin.ie