

School of Life Sciences

Summary

Investigative and practical skills are core competencies in Life Sciences. For the academic year 2019/20, due to COVID-19 restrictions, laboratory classes were replaced with online versions for Physiology and Human Biology students in their penultimate year of study.

To deliver learning outcomes difficult to achieve from e-learning, the process of scientific investigation was transferred to a "real-world" environment.

academic Supported bv and staff. groups of 5-6 technical collaborated remotelv students during the semester to design investigations. Subsequently they collected data from home-based dedicated projects, over а experimental week.

Life Science mini projects: Taking the lab outside the laboratory

Technical staff

Greig Logan*, Marie Bowers, Patricia Davidson, Katherine Price, Iain Rowe

Academic staff more info projects project...' Example Assessment Students were assessed Blood Glucose Response on their investigations via to Caffeine: students used a group presentation and a continuous glucose individual report. an monitor to record blood Grades achieved were in glucose responses for 3 line with previous years' hours after taking an over lab-based projects. counter caffeine istribution of report grades 2019 - 2021 **Students**



"Overall I think the miniwent well... it reminded me of what would be involved in an honours





"...you can obviously share stuff online and ideas and stuff quite quickly."

"Ordering the equipment...was quite stressful as it only just arrived in time for our planned data collection start-date."



Take-home messages

implemented investigative Remotely projects are possible with appropriate planning and safety considerations.

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tablet.

Remote delivery presented opportunity for creation of experiments with realworld application.



Technical staff are key members of the teaching team and have valuable expertise to facilitate the learning experience.