Executive	Department of Physics
unit	
Project	Science popularisation activities in 2020: Students who are
name	visually impaired and hard of hearing conduct hands-on science
	camps and related teacher training and fostering
Project host	Zhongqing Wu

1. Project Summary:

This project unites subject experts and educational scholars from the Yuanzhe Science Education Foundation, National Changhua University of Education, National Taiwan Normal University, National University of Tainan, Premier Foundation, Zhide Listening, and Language Centre to plan the Natural Science and Mathematics camps for students who are visually impaired or hard of hearing. An attractive hands-on model, focusing on and complying with the spirit of inquiry and practice in the 2019 curriculum, and allocating a sufficient teaching workforce subtly enhances the interest and effectiveness of scientific learning for students who are visually impaired or hard of hearing. The project can also effectively shorten the gap in science learning of disadvantaged groups and enhance the multiple employment options for these students. We hope that by promoting this project and providing a reference for standard education units to conduct science education courses, we also provide government units with a reference for the future planning of science learning courses for students who are visually impaired or hard of hearing.

2. Achievements:

Event name	Event Date	Stude nt No. (Junio r Class of kinder garten)	Stude nt No. (Senio r Class of kinder garten)	Stude nt No. (Junio r High- Schoo 1 Class)	Stude nt No. (Senio r High- Schoo 1 Class)	Team auxilia ry numbe r	Total partici pants
2020 Yuanzhe Summer Camp for the Visually	2020/08/10– 08/14	9	8	11	9	25	85

Impaired								
2021 Yuanzhe	2021/01/25-	11	13	12	7	26	92	
Winter Camp								
for the								
Visually	01/29							
Impaired								

Event name		Event Date	Student No. (Junior Grades)	Student No. (Middle Grades)	Student No. (Senior Grades)	Team auxiliar y number	Total particip ants
2020 Yuanzhe Summer Camp for Students who are Hard of Hearing 2021 Yuanzhe Winter Camp for Students who are Hard of Hearing		2020/08/10– 08/14	15	9	11	20	74
		2021/01/25– 01/29	18	14	16	22	90
Index SDG01_SDG02_SDG03_SDG04_SDG05_SDG06_SDG07 corresponding SDG08_SDG09_SDG10_SDG11_SDG12_SDG13_SDG14 to SDGs SDG15_SDG16_SDG017							

Supporting photos



Course Name: Between breath



Course Name: Between pulling

Instructor: Professor Zhongqing Wu If you directly blow on a Ping-Pong ball Have you heard of 'inertia'? Objects will (or styrofoam ball), it will be blown away. However, if you cover the ball in a funnel with a special device (the straw is covered with a funnel-shaped cover) and then blow hard on the straw, will the ball be blown become faster or slower and will not turn. away or will it get stuck?

Instructor: Professor Zhongqing Wu 'get used to' or 'keep' their original state of motion, i.e., things that are still will remain still. If you are in motion, you will get used to the original state of motion: you will not



sink: Aiyu

Instructor: Professor Suzhen Yang

Listen to the teacher's introduction and use In daily life, we often find various various sensory observations such as touch and smell to get to know more about advertising pigments, and coloured pen Taiwan's unique plant species, Aiyu. Finally, try to make Aiyu jelly on your single pigment or mixture of multiple own.



Course Name: Seeing magnetism Course name: Kaleidoscope of arts Instructor: Teacher Jialing Li Instructor: Professor Zhongqing Wu From the rectangular expanded view to the I will explore with you a type of



Course name: Know the best summer heat Course name: Simple filter paper colour layer analysis

Instructor: Professor Shuiping Yang

pigments and dyes such as food pigments, inks. Are these coloured substances a pigments?



three-dimensional (3D) kaleidoscope DIY,ultra-distance force, namely a magneticI will show you the magical changes thatforce. What do magnets feel when theyoccur when something transforms from flatapproach each other? Repulsion? Orto 3D. The 3D heart, diamond seat, and bigattraction? Take a transparent iron powderchallenge of the apple pie will test yourbox and place the magnet under the box.hand-eye coordination.What do you see?

Related links

• 'Yuanzhe Science Camps of the Visually and Hearing Impaired' Fan Page <u>https://reurl.cc/LbYOaK</u>