

2019 UNAAWA GLOBAL GOALS CHALLENGE FINALIST PROJECT

ENTRANT:

Shenton College Year 10 students: Aleena Flack, Olivia Donati, Harry Brauhart

PROJECT TITLE:

Lifeline

GLOBAL GOALS:

SDG 14 Life Below Water

DESCRIPTION:

The school is implementing the *UNAAWA Global Citizenship and Sustainability* WACE-endorsed program. The entry in the Global Goals Challenge is part of the process to assure the quality of program delivery. The three students:

- Researched and developed ideas to address the problem of entanglement in the ocean and river caused by fishing line.
- As a consequence of their research they decided to trial the use of dissolvable sutures as fishing line. With a much shorter lifetime, in theory these sutures will reduce line entanglement and marine life death.
- The sutures were tested in conditions similar to sea water, measuring the degree of stretch and load they can hold, with the view of being actually used by people fishing.
- The sutures were put into a solution to dissolve them, though dissolving time in water is slower than on skin.
- Prepared a blog recording the development process.
- Prepared a promotional video

REFLECTIONS

WWW [*What Worked Well?*]

Team work; Collaboration of ideas; Teacher's direction; Sourcing equipment

EBI [*Even Better If...*]

- Sourcing actual sea water rather than making a salt solution.
- Commencing more trials.
- Having each group member conduct the same experiments to see if our results were similar and accurate.
- Test another variable for example sun/ UV exposure.

Advice for other students

We would thoroughly recommend students completing this Challenge. It is highly enjoyable to work, resolve and come up with a solution to a problem that you are passionate about. It is a great experience and improves your team work and thinking skills. It is a great way to get you thinking outside the box!

LEAD TEACHERS:

Bec McKinney, Samantha White and Michael Vilsmeir



