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
OVER ONE MILLION MARINE ANIMALS ARE KILLED EACH YEAR DUE TO PLASTIC DEBRIS.

Lifeline is a biodegradable fishing line made of dissolvable sutures.

Eco Friendly Fishing Gear

- Biodegradable
- Breaks down in salt
- Natural fibers

- Fishing net all biodegradable
- Easily removable

- Snag proof hooks
- Non choking hazard
- Repulsive hooks
- Edible
- Acid soluble
- Saliva soluble

Tangle proof

- Slips off objects

- Easily removable
- Removable hooks