



## Floating Classroom on Discovery Yacht Sun One

29 August 2019

Hosted by Discovery Yacht Sun One, students from the Changkat Changi Secondary School were invited to experience a Floating Classroom on board.

With Discovery Yacht Sun One berthed at the Marina at Keppel Bay, the students also had a chance to observe the thriving corals within the marina's City Reef. An ideal complement to the session since the topic focused on the threats to coral reefs, especially from the effects of warming and ocean acidification and its impact to the marine environment and marine life.

Feedback received about the session, was a thumbs up for the breadth of information in the content, made engaging and interesting with rich visual presentation from videos of underwater scenes and marine life taken from real dive experiences.

Not to mention the simulation exercises which clearly illustrated the effects of a warmer water temperature on coral resulting in coral bleaching – corals expel the algae (zooxanthella) living in their tissues resulting in the coral turning white.

And another exercise on the science of ocean acidification and its effect on coral structures. The oceans absorb 25% of all the carbon dioxide (CO<sub>2</sub>) in the atmosphere. The cause and effect of this is that the more CO<sub>2</sub> that is dissolved into the atmosphere, the more CO<sub>2</sub> is absorbed by the ocean causing the chemistry of the ocean to change and become more acidic.

A successful day indeed ending with the students touring Discovery Yacht Sun One and lingering at the bridge and the Terrace.

Expedition Gallery

[Partner sites](#)

Changkat Changi Secondary School: <https://changkatchangisec.moe.edu.sg/>

Marina at Keppel Bay: <http://www.marinkeppelbay.com/about-us/>

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