

CREATING EXPONENTIAL ENTREPRENEURS

ACE EdVenture Biosphere, the August intake of **Dwi Emas International School**, is on a bold mission: to nurture students with the power to reshape the world.

As a natural extension of Dwi Emas' award-winning entrepreneurial education, **ACE Biosphere introduces an environmental dimension** through its **NatureTech-Focused Learning curriculum**. This forward-thinking programme empowers students to develop both **green skills** and **impact skills**, equipping them to integrate environmental responsibility into their ideas, innovations, and ventures.

REGENERATING THE FUTURE

using NatureTech Focused Learning curriculum

RESHAPING THE WORLD THROUGH THE CONVERGENCE OF THE 3 Es

ENVIRONMENT
EDUCATION
ENTREPRENEURSHIP

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NATURETECH FOCUSED LEARNING

At the heart of NatureTech-Focused Learning is a mission to redefine pollution and regeneration.

We explore how pollutants can be transformed into valuable resources—shifting the narrative from waste to opportunity.

It's about turning challenges into solutions while actively contributing to the regeneration of our planet.





VERMICULTURE & VERMICOMPOSTING

The “**Farm Without a Farm**” concept teaches students that they don’t need traditional farmland to cultivate organic produce. By mastering vermicomposting, they’re discovering how to create productive soil anywhere, opening up new possibilities for sustainable farming.

As a result, students not only generate compost which can be used for sustainable farming but they also sell these composting kits as compact models to the public. From there, it makes farming sustainable for everyone without having them to own a plot of land. The best part is, people of the whole nation and even the world can now play their part in eliminating paper waste.

**For every 6 kg of waste,
we can make 1kg of compost**



FOOD TECH

In the **FoodTech classes**, students dive into the world of food technology, exploring essential topics such as food safety, food preservation, and most importantly, how to minimise food waste.



HYDROPONICS

Hydroponics is the technique of growing plants using a water-based nutrient solution rather than soil, and can include an aggregate substrate, or growing media, such as vermiculite, coconut coir, or perlite.

Teaching kids about hydroponics introduces them to sustainable farming by growing plants without soil.

Students learn science, technology, and resource conservation while turning the vegetables they grow into a small business, generating revenue and gaining practical entrepreneurship experience.

Our ACE Biosphere students won GOLD at ITEX with their sustainable inventions for two consecutive years (2022 & 2023)



2023 ITEX Gold Winner, Joe Chew, The Oceanist presenting his invention, “Eye Sea You” to Tan Sri Datuk Dr. Augustine Ong.

2022 ITEX Gold Winner, Ong Joon Zach with his invention, CocoCool and President of MINDS, Tan Sri Datuk Dr. Augustine Ong.



“Dwi Emas provides the platform for students to continue standing up for what they believe in – in the context of doing what’s right for the greater good and for nature.”

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TO KNOW MORE**



Primary ACE Biosphere students on their nature excursion at Taman Tugu.

Yvonne Teh
Parent of ACE Biosphere student

