

Student Proposal

Quad Vertical Garden Project

Northern Beaches Secondary College - Manly Selective Campus



June 2020



1. Overview/Aim

In collaboration with the SRC, Environment Committee and the HSIE Department. A student action group is proposing the installment of new living walls/vertical gardens within the quad.

2. Location

The proposed installment would be located in the Quad. The walls could be in a series of 'blocks' or a continuous structure. On the northern facing side of the southern wall (ie Languages + HSIE corridor facing North towards the quad). We are pending an external assessment to evaluate the most feasible location within the wall. The advantage of the installment being located in the quad is increased safety of the gardens compared to other areas located around the perimeter of the school.

3. Links to Syllabus

The new NSW Geography curriculum (introduced in 2017) has a series of underlying concepts that include: Sustainability, Place, Water, Space and Environment. Teachers are encouraged to engage students in their local environments and to promote awareness of sustainable values. Urban design structures such as a vertical "green wall" provide an ideal opportunity for students to experience authentic and hands-on learning opportunities.

For more information contact Karen Bowden (HSIE - Senior Geography Teacher):

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4. Advantages

- A noise and visual buffer between the classroom environment and the activities taking place in the Quad during lesson time (eg PE or group activities)
- A green space view for the students which would promote a more sustainable approach to urban design
- Improved air quality for the school community and temperature control in what is a hot spot within the school
 - Potential for reduced energy consumption
- Improved sense of community and wellbeing
 - Happier and healthier students

Refer to infographic:

https://junglefy.com.au/wp-content/uploads/2019/02/Junglefy-Infographic_new2_PM_2.pdf

5. Process & Timing

We envision to engage with external organisations such as Junglefy to design, implement and deliver such a project. The goal is to have the gardens set up by the end of Term 3, 2020 (September) in time for Spring.

6. Ongoing Maintenance

Ongoing maintenance of the plant's health could be the responsibility of:

- HSIE (Geography) classes that take place within Room 33 and Room 34;
- Environment Committee;
- SRC

Considerations must be made on how the plants would be maintained during school holiday periods.

7. Cost Analysis

We are pending an external organisation to provide a quote. However, we are aiming to spend no more than \$20,000.

8. P&C Involvement

We are currently seeking any constructive feedback, suggestions or thoughts P&C representatives may have regarding this proposal. Would the P&C be happy to support and fund this initiative? Additionally, we would like to find out the involvement P&C may be able to have in regards to this project.

9. Dimensions & Photos (for External Providers)

This is the northern facing, southern wall of the Quadrangle that we are aiming to install green walls on. Part of this wall gets constant sunlight while the other part gets some shade (due to the tree). The wall measures approximately 50m (length) by 8m (height). We are focusing on installing the gardens/walls on the lower half of the building or on the red railing (*which lines*

across the quadrangle) to provide a sound and visual barrier between the classrooms and playground. The wall distance between the windows measures approximately 800-900mm.



Figure 1 - Western side of the quadrangle



Figure 2 - Eastern side of the quadrangle

10. Contact

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