Little Green Dot Student Research Grant

Jointly organized by IKEA Singapore, WWF – World Wide Fund for Nature (Singapore) and Nature Society (Singapore), the Little Green Dot Student Research Grant aims to facilitate the development of a new generation of leaders in environmental issues by encouraging them to learn about the environment through direct study and discovery. The theme for 2012 is 'Forest Conservation'.Below are the completed project reports available for downloading. Please note that copyright of the project reports belongs to the students and schools. Permission has to be sought from the students and schools for any reproduction in part and/or whole of the reports.

2012 PROJECT REPORTS

Second School Category

Investigating the Effect of Soil pH on the Germination of Avicennia alba Seedlings
http://www.nss.org.sg/documents/Investigating the Effect of Soil pH on the Germination of Avicennia alba Seedlings.pdf

Nature Society (Singapore)

Death Walkers and Their Unknown Transgression: A Study on Soil Compaction Along Green Corridors at Bukit Timah Nature Reserve
http://www.nss.org.sg/documents/Little_Green_Dot_Geography_report_final.pdf

An Artificial Diet as an Alternative Food Source for *Eurema hecabe*
http://www.nss.org.sg/documents/LittleGreenDot_E Hecabe Artificial Diet_Report.pdf

Research on Heavy Metal Levels in Singapore Mangroves
http://www.nss.org.sg/documents/RESEARCH ON HEAVY METAL LEVELS IN SINGAPORE MANGROVES.pdf

Decreasing "Edge Effect" by Introducing Native Species to Outcompete Invasive Plant Species in Singapore
http://www.nss.org.sg/documents/St. Margaret's little greendot research.pdf

Junior College Category

Radio Tracking of Large Odonata Species in Forest Fragments in Singapore
http://www.nss.org.sg/documents/LGD 2012 Radio Tracking Odonata NUS High Hwa Chong Inst.pdf

Protected and Unprotected Forest Streams: A First Look at Bukit Brown and Bukit Batok Waterways
http://www.nss.org.sg/documents/LGD 2012 Protected and Unprotected Forest Streams NUS High.pdf

Influence of the Edge Effect and Other Selected Abiotic Factors on Tree Seedling Density and Species Richness in a Tropical Forest in Singapore
http://www.nss.org.sg/documents/LGD 2012 Influence of Edge Effect and Abiotic Factors on Tree Seedling Density NUS High.pdf

Nature Society (Singapore)

Effects of Mudskippers on the Soil Composition and Texture in Mangrove Forests, and Hence the Growth of Mangroves

http://www.nss.org.sg/documents/LGD 2012 Project Mudskipper Temasek JC.pdf

Soil Power! The Best Remedy for Our Forests

http://www.nss.org.sg/documents/LGD 2012 Soil Power SRJC.pdf

Saving the Bryophytes of Our Forest

http://www.nss.org.sg/documents/LGD 2012 Bryophytes VJC.pdf

Description of Little Green Dot Project

Students from secondary (upper) schools and junior colleges were invited to form groups of 2 to 4 members, and submit research proposals to help conserve Singapore's nature. Eleven groups with the best proposals will receive a grant to carry out research work from May to December 2012. Practicing environmentalists will be assigned as mentors to the grant recipients to provide guidance through the entirety of the project.

To apply, download the application form at:
http://www.nss.org.sg/documents/Little Green Dot application form.doc

The deadline for proposal submission was **19 March 2012**.

Please also take a look at some frequently asked questions (http://www.nss.org.sg/documents/LGD FAQ.doc).

If you missed the briefing session on 17 Feb 2012, you may download the briefing slides here:
http://www.nss.org.sg/documents/LITTLE GREEN DOT teachers briefing slides – 2012.ppt

For enquiries, please contact Nature Society (Singapore) at 6741 2036 or email: littlegreendot@nss.org.sg.

Nature Society (Singapore)

Selection results for 2012 are out.

Here are the proposed projects that are awarded the Little Green Dot Student Research Grant in 2012.

Secondary School Category

Death Walkers and Their Unknown Transgressions: A Study on Soil Compaction along Green corridors in Bukit Timah Nature Reserve
http://www.nss.org.sg/documents/SS2 Soil Compaction.pdf

Investigation of paper strips impregnated with ethanolic host plant extracts as an alternative food source for *Eurema hecabe*
http://www.nss.org.sg/documents/SS3 Eurema hecabe.pdf

Investigating the effect of soil pH levels on levels of photosynthetic activity for the mangrove *Avicennia alba*
http://www.nss.org.sg/documents/SS6 Mangrove photosynthesis.pdf

Research on the quality of water in mangrove forests in Singapore, its effects and solutions
http://www.nss.org.sg/documents/SS7 Water Quality.pdf

Decreasing "edge effect" by introducing resistant native species to outcompete invasive plant species
http://www.nss.org.sg/documents/SS9 Edge effect.pdf

Junior College Category

Saving the Bryophytes of our Forests
http://www.nss.org.sg/documents/JC1 Bryophytes.pdf

"Soil Power! The Best Remedy For Our Forests"
http://www.nss.org.sg/documents/JC2 Soil Power.pdf

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Protected forest and unprotected forest streams: a first look at Bukit Brown and Sime Road waterways
http://www.nss.org.sg/documents/JC4 Forest streams.pdf

Study of Odonata species across streams and small ponds in forest fragments of Singapore
http://www.nss.org.sg/documents/JC5 Dragonflies.pdf

Edge effects on seed health in Singapore
http://www.nss.org.sg/documents/JC7 Edge effects.pdf

Effects of mudskippers and lobsters on soil composition and texture in mangrove forests, and hence on the growth of mangroves
http://www.nss.org.sg/documents/JC9 Mudskippers.pdf

Each proposed project above may undergo modifications and revision according to mentors' advice.

2011 PROJECT REPORTS

In 2011, the theme for the Little Green Dot Student Research Grant was 'Marine and Freshwater Conservation'. Below are the completed project reports available for downloading:

Secondary School Category

A study of selected bird populations and environmental factors affecting their distributions in Kranji Marsh Park
http://www.nss.org.sg/documents/NUS High School Bird Survey.pdf

Saving the *Cuora amboinensis*
http://www.nss.org.sg/documents/Saving the Cuora amboinensis.pdf

Seagrass patrol squad
http://www.nss.org.sg/documents/seagrass patrol squad.pdf

Survival of the reef
http://www.nss.org.sg/documents/survival of the reef.pdf

The effect of added fish feed on algal bloom in Singapore

http://www.nss.org.sg/documents/AlgalBloom.pdf

Junior College Category

Investigating the effects of water velocity and turbidity on the development of Common Spoon Seagrass (*Halophila ovalis*)

http://www.nss.org.sg/documents/Investigating the effects of Water Velocity and Turbity on the Development of Common Spoon Seagrass.pdf

Investigating the regenerative properties of reclaimed sites in Singapore by comparative analysis of soft-bottom macrobenthic communities

http://www.nss.org.sg/documents/Investigating the Regenerative Properties of Reclaimed Sites in Singapore.pdf

Preliminary investigation on the factors affecting the growth of coral reefs in Singapore

http://www.nss.org.sg/documents/coral growth factors.pdf

Presence of organochlorines in the waters of Singapore

http://www.nss.org.sg/documents/Presence of Organochlorines in the Waters of Singapore.pdf

Saving the freshwater loaches, rasboras and gouramies

http://www.nss.org.sg/documents/Saving_the_Freshwater_Loaches.pdf

Tolerance of marine copepods to changing salinity: Implications for Singapore's freshwater management

http://www.nss.org.sg/documents/Tolerance of Marine Copepods to Changing Salinity.pdf

Nature Society (Singapore)