

A special thank you goes out to the following who supported this event. We could not have done it without you!

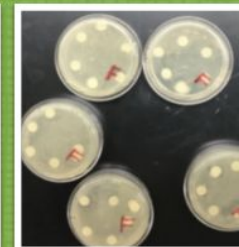
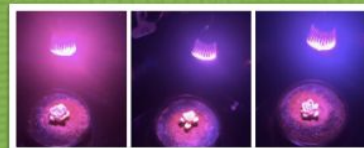


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International Baccalaureate at Capuchino High School

The Capuchino High School Science Department and the IB Biology II classes present the...



5th Annual Capuchino HS IB Science Showcase



Capuchino High School
Samuel Johnson Jr. PAC Foyer
Wednesday, May 21, 2025
3:00pm After School



Senior IB Biology students will present their Internal Assessments which have been transformed into scientific posters. Come out to celebrate, recognize and learn about the great work students produced in IB. Posters will stay up during the IB reception and senior awards. Light refreshments will be sold to fundraiser for future IA materials.

IB Biology II Internal Assessment

Presenter		Research Topic
Aaron	Fong	The Effect of Pectinase on Juice Production of Clementines of Varying Temperatures
Abraham	Alfakhouri	Impact of Auxin Concentration on Onion Roots
Adrian	Luu	The Effect of the Color of Light on the Change in Biomass of Elodea canadensis.
Adrianna	Brignardello	Temperature on Transpiration in Nasturtium Plants
Aidan	Tran	Phenotype Inheritance Between Two Distinct Wisconsin Fast Plants
Aleena	Bragar	The Effect of Temperature on E. Coli bacteria
Alessia	Perez	Comparison of the Zone of Inhibition Produced by Cocos nucifera (coconut oil) Melaleuca alternifolia (tea tree Oil), and Lactic Acid (concentrations 5% & 10%) against Saccharomyces cerevisiae (baker's yeast) as a Model Organism for Candida
Alexandria	Feldman-Suncin	Reef safe vs non-reef safe sunscreen effect on algae growth
Andres	Hernandez Rivera	Brine shrimp survival in different concentrations of salt water
Angeline	Sanchez	The Relationship Between The Age of Pineapple (Ananas comosus) and The Digestion of Gelatin by Bromelain.
Antonia	Cacianti	How Active Ingredients in Face wash and the Inhibition of Bacteria
Ariana	Oropeza	Temperature and the Rate of Decay of Apples
Ava	Shaughnessy	The effect light color has on the growth of a pea plant (Pisum sativum).

What is IB Biology?

IB Biology is the study of life. The vast diversity of species makes biology both an endless source of fascination and a considerable challenge. Biologists attempt to understand the living world at all levels from the micro to the macro using many different approaches and techniques. Biology is still a young science and great progress is expected in the 21st century. This progress is important at a time of growing pressure on the human population and the environment.

By studying biology in the DP students should become aware of how scientists work and communicate with each other. While the scientific method may take on a wide variety of forms, it is the emphasis on a practical approach through experimental work that characterizes the sciences. Teachers provide students with opportunities to design investigations, collect data, develop manipulative skills, analyse results, collaborate with peers and evaluate and communicate their findings.

Assessment at a glance

Type of assessment		Time (hours)		Weighting of final grade
Format of assessment		SL	HL	
External		3	4.5	80
Paper 1	Paper 1A: Multiple-choice questions Paper 1B: Data-based questions (four questions that are syllabus related, addressing all themes)	1.5	2	36
Paper 2	Data-based and short-answer questions Extended-response questions	1.5	2.5	44
Internal		10		20
Scientific investigation	The scientific investigation is an open-ended task in which the student gathers and analyses data in order to answer their own formulated research question. The outcome of the scientific investigation will be assessed through the form of a written report. The maximum overall word count for the report is 3,000 words.	10		20

IB Biology II Internal Assessment

Presenter		Research Topic
Summer	Greer	Seed Germination in different water pollutants
Tyler	Fassler	Native vs non-native species abundance
Yasmeen	Lopez Parra	Effect of Air Movement on Carnation transpiration
Yvette	Plascencia	Amount of water on bean germination
Participant		Role
Zander	Brown	assistant
Nicolas	Venegas	assistant
Penelope	Siu	assistant
Natalie	Sibrian Laurian	assistant
Nio	Salazar	assistant
Isaiah	Puzon	assistant
Bryce	Brooks	assistant
Saul	Aguilar Martinez	assistant

IB Biology II Internal Assessment

Presenter		Research Topic
Brendan	Teng	Effect of different hand sanitizers and hand soaps on inhibiting the growth of Staphylococcus epidermidis
Caitlin	Wong	Study of influence between environmentally friendly and conventional dish soaps on the growth of Escherichia coli
Charlie	Bosco Alvarez	Effect of sucrose concentration on SCOBY production of carbon dioxide
Daisy	Huerta	Staph growth and garlic concentration on a megaplate
Daniel	Academia	Does Sodium Fluoride KILL E. Coli
Dominic	De Belen	Species abundance in fenced and non-fenced areas
Elijah	Agra	How Types of Water Affects Radish Seed Growth
Emily	Donohoe	Effects of Acid on E. coli
Garren	Chew	How Various Antibacterial Cleaning Products Effect the Growth of E. coli.
Gavin	Sekioka	Is there an effect of different light colors on behavior in Planaria Flatworms (Tricladida), occurring in a choice chamber, over the course of a minute?
Giovanni	Jaramillo Alvarez	Is there a correlation between height and reaction time?
Grace	Edwards	Seed germination of lima beans in different caffeine concentrations

IB Biology II Internal Assessment

Presenter		Research Topic
Jasmine	Louie	Types of tea and Chia seed germination
Jet	Tanedo	Does the rate of photosynthesis of Elodea (<i>Elodea canadensis</i>) get affected by various pH levels?
Juliet	Munoz	pH of ocean surface and CO ₂ levels
Kamryn	Mendoza	Amount of sucrose and carbon dioxide creation in yeast
Kendall	Mendoza	Effects of Global Land Temperatures on Wheat Yield Gaps
Kaylie	Leung	Effect of tea oxidation on bacterial growth
Leonel	Lopez Merino	Hydrogen peroxide concentration and catalase action
Liam	O'Keefe	Dominant v. Non-dominant grip strength
Logan	Agtual	Correlation between Temperature of Environment and Seed Growth
Lola	Sierra	Environmental complexity and foraging in roaches
Lucy	Madrid	The Effect of pH Variations on Germination and Early Growth of Sunflower Seeds (<i>Helianthus annuus</i>) Over the Course of Four Days
Lyka Crizia	Resurreccion	The Effect of Temperature on the Ripening of an Avocado
Madison	Ciardella	"How does varying the pH levels of different solutions have an impact on the browning of pears after three days?"

IB Biology II Internal Assessment

Presenter		Research Topic
Maiori	Guitron	An investigation on the correlation between how many elodea plants (<i>Elodea canadensis</i>) are in a mesocosm and the overall health of the mesocosm
Mariaimoana	Faumuina	Germination Little Marvel Peas in different levels of salt concentration?
Mark	Askndafi	Effect of Salt on Plant Growth in Barley and Radishes
Mia	Fuell	Comparative analysis of bromelain activity and concentration in various pineapple juice preparations measured by gelatin digestion efficiency
Santino Albert	Co Seng	Comparison of the Effectiveness of Different Hand Sanitizer Brands on the Inhibition of <i>Escherichia coli</i> Growth
Sarc	van Mechelen	Is there a correlation between frequency of stimulation of <i>Mimosa pudica</i> leaves and action potential spikes?
Sarai	Freeman	Impact of DPP-IV on gluten digestion.
Scarlett	Klemm	What is Your Phone Doing to You?
Sophia	Cacianti	Tea Tree Oil as a Natural Remedy
Sophia	Ramirez	Stomata density in different tree species