

IB Biology with Mr. Banh

Welcome to IB Biology!

Our class focuses on practicing the **IB learner profiles**, and more specifically:

- Understanding **concepts**, not just memorizing
- **Applying** the concepts and examples we learn about
- Developing scientific ATL **skills** (arguing from evidence, collaborating, communicating)

Grades

The grade breakdown consists of these main categories:

- Summative Assessment (40%)
- Formative Assessment (30%)
- Guided Practice (20%)
- Independent Practice (10%)

Recommended everyday materials:

- Chromebook
- Access to:
 - Google Classroom, Aeries
 - Kognity (Textbook)
 - Quizizz, Gizmos, Interactive Notebook
- Need help? Contact me 😊

Classroom rules, expectations, and routines:

1. Safe and comfortable learning environment:
 - a. Treat everyone in the classroom with respect, whether in-person or online.
 - b. Mistakes are normal and embraced; they are part of the learning process.
 - c. Follow district-wide safety guidelines.
2. Technology are amazing tools and will be solely used for your educational success; please bring your charged Chromebooks or laptop to class.
3. Quality over quantity: don't memorize anything and everything; take the time to learn and understand the concepts.
4. Know that you are bright, and so are your peers. Productive communication is always encouraged. Due to the current situation, there will be many changes throughout the year so let's be flexible and work this all out together!
5. We will follow the Academic Honesty policy established by the IB Diploma Programme.

SUCCESS LIES OUTSIDE YOUR COMFORT ZONE.

Questions? Contact me anytime:

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Parent Square



Curriculum – Our topics for this course include:

Theme	Level of organization			
	1. Molecules	2. Cells	3. Organisms	4. Ecosystems
A Unity and diversity	Common ancestry has given living organisms many shared features while evolution has resulted in the rich biodiversity of life on Earth.			
	A1.1 Water A1.2 Nucleic acids	A2.1 Origins of cells <i>[HL only]</i> A2.2 Cell structure A2.3 Viruses <i>[HL only]</i>	A3.1 Diversity of organisms A3.2 Classification and cladistics <i>[HL only]</i>	A4.1 Evolution and speciation A4.2 Conservation of biodiversity
B Form and function	Adaptations are forms that correspond to function. These adaptations persist from generation to generation because they increase the chances of survival.			
	B1.1 Carbohydrates and lipids B1.2 Proteins	B2.1 Membranes and membrane transport B2.2 Organelles and compartmentalization B2.3 Cell specialization	B3.1 Gas exchange B3.2 Transport B3.3 Muscle and motility <i>[HL only]</i>	B4.1 Adaptation to environment B4.2 Ecological niches
C Interaction and interdependence	Systems are based on interactions, interdependence and integration of components. Systems result in emergence of new properties at each level of biological organization.			
	C1.1 Enzymes and metabolism C1.2 Cell respiration C1.3 Photosynthesis	C2.1 Chemical signalling <i>[HL only]</i> C2.2 Neural signalling	C3.1 Integration of body systems C3.2 Defence against disease	C4.1 Populations and communities C4.2 Transfers of energy and matter
D Continuity and change	Living things have mechanisms for maintaining equilibrium and for bringing about transformation. Environmental change is a driver of evolution by natural selection.			
	D1.1 DNA replication D1.2 Protein synthesis D1.3 Mutation and gene editing	D2.1 Cell and nuclear division D2.2 Gene expression <i>[HL only]</i> D2.3 Water potential	D3.1 Reproduction D3.2 Inheritance D3.3 Homeostasis	D4.1 Natural selection D4.2 Stability and change D4.3 Climate change

**Complete details of our course, including the IB Handbook, can be provided digitally to students on Google Classroom.*

Grading Policy

- Grading Scale: A (100-90%), B (89.9-80%), C (79.9-70%), D (69.9-60%), F (59.9-0%)
- All assignments are expected to be turned in on their assigned due dates.
 - If a student knows they will be absent on a due date or test date, please let me know ahead of time to discuss an alternative due date.
- Late assignments will be accepted but deducted 10% per day it is late. Late assignments turned in after the completion of the unit will be deducted up to 50%.
- Work authenticity: While the internet and AI can be used as a tool to assist in assignments, remember all usage must be properly cited, and prioritize showcasing your original thinking and understanding of the subject matter to uphold academic integrity.
- **If any concerns or questions arise, please communicate! I am flexible and want to support you to be successful!**

Mr. Banh – IB Biology 2024-2025

Syllabus Agreement

By agreeing to our rules and expectations, please sign and return this form:

Student name: _____

Student signature: _____

Parent name: _____

Parent signature: _____

Parent email: _____

Parent phone: _____

Please list anything you would like me to know about your son/daughter:
