

Welcome to International Baccalaureate Biology SL! Congratulations on completing AP Biology! In preparation of completing this course in a timely manner, you will create a **bound flip book**, preferably the size of index cards, **13** of the drawings below. These drawings are very important towards the IB examination. Be sure to include the topic number, title and associated annotations for each drawing. **This assignment is to be turned in the first day of class in August. Your first exam will assess this information.**

Resources: You have access to the AP Biology text.

Link: [Campbell-Reece Biology Online](#) or www.campbellbiology.com

Username: gablesbio

Password: gocavs2011

You are allowed to use any credible resource available to you; IB Companions, AP/IB Biology Review Material/Books, Google Images etc.

If any other resource becomes available, we will link them to our individual sites:

Ms. Montgomery – Class Jump

www.classjump.com/spine

Ms. De La Vega- Teacher Web

<http://teacherweb.com/FL/CoralGablesSeniorHighSchool/delaVega/apt7.aspx>

Compilation of Drawings Found Within IB Syllabus

CORE MATERIAL

ASSESMENT STATEMENT	TITLE OF DRAWING	DESCRIPTION OF DRAWING
2.2.1	Ultrastructure of E. coli	Include cell wall, plasma membrane, cytoplasm, pilli, flagella, ribosomes and nucleoid region (region containing naked DNA)
2.2.2	Annotate the above drawing	Write the functions of the structures named above
2.3.1	Ultrastructure of a liver cell	Include free ribosomes, rough endoplasmic reticulum, lysosome, Golgi apparatus, mitochondria and nucleus.
2.3.2	Annotate the above drawing	Write the functions of the structures named above
2.4.1	Structure of a membrane	Include phospholipid bilayer, cholesterol, glycoproteins, and integral and peripheral proteins.
3.1.4	Structure of the water molecule	Show polarity and hydrogen bond formation
3.3.5	Structure of DNA	Use the diagram found in assessment statement 3.3.3. In addition show the complementary base pairs of A-T and G-T which are held together by hydrogen bonds. Also show the sugar-phosphate backbone.
5.2.1	The carbon cycle	Include the processes of photosynthesis, cell respiration, fossilization and combustion.
5.3.2	Graph of sigmoid (s-shaped) population growth curve	

6.1.4	Human digestive system	Include mouth, esophagus, stomach, small intestine, large intestine, anus, liver, pancreas and gall bladder. Show the interconnection of these structures.
6.2.1	Human heart	Include all four chambers of the heart, associated blood vessels, valves, route of blood through the heart and relative thickness of the walls of the four chambers.
6.4.4	Human ventilation system	Include the trachea, lungs, bronchi, bronchiole and alveoli. Draw the alveoli in an insert diagram at a higher magnification.
6.5.2	Motor neuron	Include dendrite, cell body with nucleus, axon, myelin sheath, node of Ranvier, and motor end plate.
6.6.1	Male and female reproductive system	The relative position of organs is important. Also include the bladder and urethra.
6.6.3	Annotated a graph showing the hormone levels of the menstrual cycle. Illustrate the relationship between changes in the hormone levels and ovulation, menstruation and thickening of the endometrium.	