	Topic 6 PLC for Term 2	-		-
6.1	Understand how to determine the time of death of a mammal by	Red	Amber	Green
	examining the extent of decomposition, stage of succession, forensic			
	entomology, body temperature and degree of muscle contraction.			
6.2	Know the role of micro-organisms in the decomposition of organic matter	Red	Amber	Green
	and the recycling of carbon.			
6.3	Know how DNA profiling is used for identification and determining genetic	Red	Amber	Green
	relationships between organisms (plants and animals).			
6.4	Know how DNA can be amplified using the polymerase chain reaction	Red	Amber	Green
	(PCR).			
	CORE PRACTICAL 14:	Red	Amber	Green
	Use gel electrophoresis to separate DNA fragments of different length.			
6.5	Be able to compare the structure of bacteria and viruses.	Red	Amber	Green
6.6	Understand how Mycobacterium tuberculosis (TB) and Human	Red	Amber	Green
	Immunodeficiency Virus (HIV) infect human cells, causing a sequence of			
	symptoms that may result in death.			
6.7	Understand the non-specific responses of the body to infection, including	Red	Amber	Green
	inflammation, lysozyme action, interferon, and phagocytosis.			
6.8	Understand the roles of antigens and antibodies in the body's immune	Red	Amber	Green
	response including the involvement of plasma cells, macrophages and			
	antigen-presenting cells.			
6.9	Understand the differences between the roles of B cells (B memory and B	Red	Amber	Green
	effector cells) and T cells (T helper, T killer and T memory cells) in the			
	body's immune response.			
6.10	Understand how one gene can give rise to more than one protein through	Red	Amber	Green
	posttranscriptional changes to messenger RNA (mRNA).			
6.11	i) Know the major routes pathogens may take when entering the body.	Red	Amber	Green
	ii) Understand the role of barriers in protecting the body from infection,			
	including skin, stomach acid, and gut and skin flora.			
6.12	Understand how individuals may develop immunity (natural, artificial,	Red	Amber	Green
	active, passive).			
6.13	Understand how the theory of an 'evolutionary race' between pathogens	Red	Amber	Green
	and their hosts is supported by the evasion mechanisms shown by			
	pathogens.			
6.14	Understand the difference between bacteriostatic and bactericidal	Red	Amber	Green
	antibiotics.			
	CORE PRACTICAL 15:	Red	Amber	Green
	Investigate the effect of different antibiotics on bacteria.			
6.15	Know how an understanding of the contributory causes of hospital	Red	Amber	Green
	acquired infections have led to codes of practice regarding antibiotic			
	prescription and hospital practice that relate to infection prevention and			
	control.			