AQA

	START OF TERM 1 NOTES
3.5	Energy transfers in and between organisms
3.5.1	Photosynthesis
3.5.2	Respiration
3.5.3	energy and ecosystems
3.5.4	nutrient cycles
	Organisms respond to changes in their interrnal and
3.6	external environments
3.6.1	Stimuli - internal and external lead to a response
	Survival and response
	Receptors
	Control of heart rate
3.6.2	Nervous coordination
	Nerve impulses
	Synaptic transmission
	Skeletal muscle are stimulated to contract by nerves and
3.6.3	act as effectors
	Homeostasis is the maintenance of a stable internal
3.6.4	environment
	Principles of homeostasis and negative feedback
	Control of blood glucose concentration
	Control of blood water potential
	START OF TERM 2 NOTES
3.7	Genetics and population
3.7.1	Inheritence
3.7.2	Populations
3.7.3	Evolution may lead to speciation
3.7.4	Populations in ecosystems
3.8	The control of gene expression
	Alteration of the sequences of bases in DNA can alter the
3.8.1	structure of proteins
3.8.2	Gene expression is controlled by a number of features
	Most of a cell's DNA is not translated
	Regulation of transcription and translation
	Gene expression and cancer
3.8.3	Using genome projects
3.8.4	Gene technologies
	Recombinant DNA technology
	DNA in same species and identification/diagnosis of
	heritable conditions
	Genetic fingerprinting