9th GRADE BIOLOGY CURRICULUM MAP

	UNIT	CONCEPTS
August/September	Cell structure and	*Characteristics of living things
	function	*microscope skills
		*plant and animal cells
		*cell organization and organelles
		*prokaryotic and eukaryotic cells
		*diffusion, osmosis, active transport
September/October	Cell energy systems	*photosynthesis, ATP/ADP
		*respiration, anaerobic/aerobic
		*homeostasis
		*maintenance, growth, repair of cells/tissue
November/	Cell production and	*review DNA/RNA, transcription,
December/January	Genetics	translation, replication
		*review cell cycle (mitosis, cytokinesis, and meiosis)
		*review Mendelian and human genetics
		*population genetics, natural selection
		*genetic engineering, gel electrophoresis
January/February	Taxonomy	*4 domains and 6 kingdoms
Sundar y/1 Cordar y	Tuxonomy	*evolutionary classification
		*characteristics of phyla in each kingdom
		*dichotomous keys and cladograms
	Human Biology	*review structure and function of human
	85	organ systems/pig dissection
March/April	Plants	*plant parts and functions and adaptations
1		*plant groups
		*plant reproduction: flower parts/functions
		*fruits vs. veggies
April/May	Ecosystems	*physical geography
		*variation improves survival
		*effects of climate and weather
		*human impact on environment
		*adaptations and niches
		*cycles: water, nitrogen, oxygen, carbon,
		nutrient, energy
		*producers and consumers
		*food chains and food webs
		*predator/prey relationships

*This is a draft course map. Changes will be made by the instructor as necessary.