

Planned Course: Anatomy & Physiology	Course Number: S406	Department: Science	
Unit: Reproduction	Grade Level: 11-12		
Estimated Time: 3 weeks	Level/Track: Honors	Date Approved: 2/12/2018	
PA Academic Standards or PA Assessment Anchors	Core Concepts (in question format) • Skills/Knowledge	Activities/Strategies/Study Skills (identify some activities as remedial or enrichment activities)	Assessments (include types and topics)

<p>S11.B Biological Sciences</p> <p>S11.B.1 Structure and function of Organisms</p> <p>S11.B.1.1 Explain structure and function at multiple levels of organization.</p>	<p>S11.B.1.1.1 Explain how structure determines function at multiple levels of organization (e.g., chemical, cellular, anatomical).</p> <ul style="list-style-type: none"> ▶ How is the male reproductive system in hormonal control of the body? ▶ What is the primary organ of the male reproductive system? ▶ What is the importance of the male sex cells? 	<ul style="list-style-type: none"> – Read text – Lecture – Male diagrams – Anatomical man – Charts – Microscope slides – Lab – Gametes – Lab – The Male Reproductive System 	<ul style="list-style-type: none"> • Detailed Diagrams • Written quiz – subjective • Individual Lab reports – Level 1,2,3 analysis questions
	<p>S11.B.1.1.2 Compare and contrast the structural and functional similarities and differences among living things (e.g., classify organisms into classification groups, compare systems).</p> <ul style="list-style-type: none"> ▶ How is the female reproductive system in hormonal control of the body? ▶ What is the primary organ of the female reproductive system? 	<ul style="list-style-type: none"> – Read text – Lecture – Female diagrams – Anatomical Female – Charts – Microscope slides – Lab – The Female Reproductive System 	<ul style="list-style-type: none"> • Detailed Diagrams • Written quiz - subjective • Individual Lab report – Level 1,2,3 analysis questions

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	<p>▶ What is the importance of the female sex cells?</p> <p>S11.B.1.1.3 Compare and contrast cellular processes (e.g., photosynthesis and respiration, meiosis and mitosis, protein syntheses and DNA replication).</p> <p>▶ What are the stages of pregnancy in the developing offspring?</p> <p>▶ What is fertilization?</p> <p>▶ How does a zygote develop through mitosis stages?</p> <p>▶ What are the differences between embryonic and fetal stages of development?</p>	<ul style="list-style-type: none"> - Lecture - Read text - Pamphlets - T.V. – Miracle of Life - Embryonic stage models - Diagrams - Overheads - Lab – Human genetics - Lab – Fertilization and the Formation of the Embryo 	<ul style="list-style-type: none"> • Written quiz- subjective • Detailed Diagrams • Individual Lab report – Level 1,2,3 analysis questions
<p>S11.B.2 Continuity of Life</p> <p>S11.B.2.1 Explain the mechanisms of the theory of evolution.</p>	<p>S11.B.2.1.1 Explain the theory of evolution by interpreting data from fossil records, similarities in anatomy and physiology, or DNA studies that are relevant to the theory of evolution.</p>	<ul style="list-style-type: none"> - Vocabulary - Detailed Diagrams - Lecture - Read text - Comparison of spiny dog fish shark, necturus, fetal pig, and human body - Lab – Anatomy of the 	<ul style="list-style-type: none"> • Written quiz - subjective • Comparison essay • Homework questions • Individual Lab report – Level 1,2,3 analysis questions • Written test – subjective,

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	<ul style="list-style-type: none"> ▶ What physiological and structural changes take place in the mother's and newborn's bodies? ▶ What changes occur to the mother? ▶ What is the neonatal period for newborns? 	Human Reproductive System	definition, identification, short answer and open ended essays
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