## Anatomy and Physiology Content Standard Checklist

Standard	Unit	Element
SAP1. Students will analyze		a. Apply correct terminology when explaining the orientation of body parts and regions.
anatomical structures in		b. Investigate the interdependence of the various body systems to each other and to the body as a
relationship to their		whole.
physiological		c. Explain the role of homeostasis and its mechanisms as these relate to the body as a whole and predict
functions.		the consequences of the failure to maintain homeostasis.
		d. Relate cellular metabolism and transport to homeostasis and cellular reproduction.
		e. Describe how structure and function are related in terms of cell and tissue types.
SAP2. Students will analyze		a. Relate the structure of the integumentary system to its functional role in protecting the body and
the interdependence of the		maintaining homeostasis.
integumentary, skeletal, and		b. Explain how the skeletal structures provide support and protection for tissues, and function together
muscular systems as these		with the muscular system to make movements possible.
relate to the protection, support		
and movement of the human		
DOGY. SAD2 Students will assess the		a Interment interpretions among homeonos, songes, and nonves which make negatible the secondination of
SAP3. Students will assess the		a. Interpret interactions among normones, senses, and nerves which make possible the coordination of functions of the hody.
hody functions and their		Inclions of the body.
dependence on the endocrine		b. Investigate the physiology of electrochemical impulses and neural integration and trace the pathway
and nervous systems to		of an impulse, relating biochemical changes involved in the conduction of the impulse.
regulate physiological activities.		c. Describe now the body perceives internal and external stimuli and responds to maintain a stable
		Internal environment, as it relates to bioreedback.
SAP4. Students will analyze		a. Describe the chemical and physical mechanisms of digestion, elimination, transportation, and
the physical, chemical, and biological proportion of process		absorption within the body to change food and derive energy.
systems as these relate to		b. Analyze, and explain the relationships between the respiratory and cardiovascular systems as they
transportation, absorption and		obtain oxygen needed for the oxidation of nutrients and removal of carbon dioxide.
excretion, including the		c. Relate the role of the urinary system to regulation of body wastes (i.e. water-electrolyte balance,
cardiovascular, respiratory,		volume of body fluids).
digestive, excretory and		d. Examine various conditions that change normal body functions (e.g. tissue rejection, allergies,
immune systems.		injury, diseases and disorders) and how the body responds.
		e. Describe the effects of aging on body systems.
SAP5. Students will analyze		a. Explain how the functions of the reproductive organs are regulated by hormonal interactions.
the role of the reproductive		b. Describe the stages of human embryology and gestation including investigation of gestational and
system as it pertains to the		congenital disorders (e.g. ectopic pregnancy, miscarriage, cleft palate, hydrocephaly, fetal alcohol
growth and development of		syndrome).
humans.		c. Describe the stages of development from birth to adulthood (i.e. neonatal period, infancy, childhood,
		adolescence and puberty, and maturity).