

EXAM EXPECTATIONS

AP Biology

“Unit 2 A Level”

SUGGEST the best time to measure basal metabolic rate
SUGGEST an everyday item that might have a shape analogous to a gastrovascular cavity
SUGGEST characteristics of an animal's digestive tract based upon its diet
SUGGEST the consequences of if human kidneys could no longer carry out active transport
SUGGEST molecules that when found in urine would indicate possible trauma
DISCUSS different indicators of an animal's metabolic rate
DISCUSS the relationship between structure and function
DISCUSS the temperature that results when water condenses
EXPLAIN the energetic and molecular changes that occur when water gets colder
EXPLAIN how you make a “X”M solution of using the solute “Y”
EXPLAIN the relationship between moles and grams and molarity
EXPLAIN oxidation and reduction reactions
EXPLAIN the trade offs between endothermy and ectothermy
EXPLAIN the trade offs of the different types of nutrients used to fuel animals
EXPLAIN all roles of fish gills
EXPLAIN homeostasis
DEDUCE the charge of a solute molecule based upon the orientation of water molecules in the hydration shell
DESIGN analogies for the different structures of the digestive tract
DETERMINE the number of molecules of a solute in a given solution
DETERMINE the relative number of molecules for two different solutes
DETERMINE the type of feedback from a given description
COMPARE the digestion of proteins and fats
COMPARE osmoregulation in freshwater and marine fish