

Khan Items Worth Reviewing for the Keystone Biology Exam

Module 1

1. [Water, acids and bases](#)
 - a. [Hydrogen bonding in water](#)
 - b. [Cohesion and adhesion](#)
 - c. [Temperature and state changes in water](#)
2. [Properties of carbon](#)
 - a. [Carbon](#)
 - i. [Carbon as a building block of life](#)
3. [Macromolecules](#)
 - a. [Introduction to macromolecules](#)
 - b. Carbohydrates
 - i. [Carbohydrates](#)
 - c. Lipids
 - i. [Lipids](#)
 - d. [Nucleic acids – All sections](#)
 - e. Proteins
 - i. [Introduction to proteins and amino acids](#)
4. [Energy and Enzymes](#)
 - a. [Energy in metabolism](#)
 - i. [Overview of metabolism](#)
 - b. Introduction to enzymes
 - i. [Activation energy](#)
 - ii. [Enzymes and the active site](#)
5. [Structure of a cell – All sections and Practice](#)
6. [Membranes and transport](#)
 - a. [The plasma membrane – All sections](#)
 - b. [Diffusion and osmosis – All sections and Practice](#)
 - c. [Passive transport – All sections and Practice](#)
 - d. Active transport
 - i. [Sodium potassium pump](#)
 - e. [Bulk transport – All sections and Practice](#)

Module 2

1. [Cell division – All sections and Practice](#)
2. [Classical and molecular genetics – All sections](#)
3. [DNA as the genetic material – All sections](#)
4. [Central dogma \(DNA to RNA to protein\) – All sections](#)
5. [Evolution and the tree of life](#)
 - a. Evolution and natural selection

- i. [Introduction to evolution and natural selection](#)
 - ii. [Darwin, evolution, & natural selection](#)
 - iii. [Variation in a species](#)
 - iv. [Evidence for evolution](#)
 - v. [Evidence for evolution](#)
 - b. Speciation and evolutionary trees
 - i. [Species and speciation](#)
- 6. [Ecology](#)
 - a. [Intro to ecology – All sections](#)
 - b. Population growth and regulation
 - i. [Exponential and logistic growth in populations](#)
 - ii. [Predator-prey cycles](#)
 - c. [Intro to community ecology – All sections](#)
 - d. Community structure and diversity
 - i. [Invasive species](#)
 - ii. [Ecological succession](#)
 - iii. [Ecological succession](#)
 - e. [Intro to ecosystems – All sections](#)
 - f. [Biogeochemical cycles – All sections](#)