Biology – Understanding Your Child's Performance: Below is a summary of skills and knowledge students must demonstrate to achieve each performance level. A student should demonstrate mastery of knowledge and skills within his/her achievement level *as well as* all content and skills that precede it. For example, a Proficient Learner should also possess the knowledge and skills of a Developing Learner *and* a Beginning Learner.

	Beginning Learner	Developing Learner	Proficient Learner	Distinguished Learner
End-of-Course Biology	 recognize that macromolecules provide organisms with different nutrients recognize the structure and function of DNA recognize that organisms can be grouped into six kingdoms based on similarities recognize that some human activities affect the environment recognize that investigators control the conditions of their experiments use standard laboratory tools 	 In general, your child can: identify the functions of each of the four major macromolecules (carbohydrates, proteins, lipids, and nucleic acids) distinguish between osmosis and diffusion compare hypertonic, hypotonic, and isotonic solutions distinguish between RNA and DNA compare structures among the six kingdoms of life explain human activities that affect the environment recognize the role of natural selection in the development of the theory of evolution describe the appropriate use of tools for scientific investigations describe characteristics of living things and viruses 	In general, your child can:	 apply homeostasis given a realworld scenario describe how changing the genetic code of an organism can result in advantageous traits analyze how genetic manipulation changes the genetic frequency of traits explain the advantages and disadvantages of the different types of reproduction analyze the relationships between different cellular processes analyze the need for cycling essential elements draw conclusions from data explain how successful species evolve