



# Science Benchmarks Achievements

## Senior Science

The Fifth Day: Zoology and Biology

Ages 12+

### Objectives at this age:

- Students will complete their zoology and biology science textbook.
- Upon completion of the textbook, they will be prepared to enroll in a college-level biology course.
- Student-created textbooks should demonstrate a basic understanding of Zoology. However, students are encouraged to explore subjects in greater depth according to their interests and desires.

### Student-created textbooks should include:

- A cover designed and created by the student
- An introduction to zoology written by the student that includes the question and discussion of why and how God organized and created animals
- Definitions, illustrations, and descriptions of zoology terms and concepts listed in the Elementary Benchmarks Achievements for Zoology
- A combination of reports, essays, illustrations, and research papers to demonstrate student's knowledge of the following divisions of zoology and biology. (At least 3 projects for each of the following divisions)
  - Biological classification (kingdom, phylum, class, order, family, genus, species) compared with Biblical classification
  - Fish (Cold-blooded aquatic vertebrates, saltwater fish, freshwater fish)
  - Birds (warm-blooded, egg-laying with feathers and wings, land birds, birds of prey, flightless birds, game birds, water birds, tropical birds)
  - Beasts (any large, four-footed animal, wild, domestic, furry, thick-skinned, scaly)
  - Cattle (herds of all kind, wild cattle and domestic cattle)
  - Creeping things (to move with the body close to the ground, worms, insects, spiders, crabs, turtles, snakes, rodents)
  - Animal cell structure (cell division and reproduction)
  - Famous scientists (Charles Darwin, Gregor Mendel, Aristotle, Louis Pasteur, Carolus Linnaeus)

- Conclusion written by the student that answers the question of why and how God created the animals. Students may consider searching the scriptures for the following terms to assist them in their study:
  - Fish, birds, beasts, cattle, creeping things, clean, unclean, food, raiment, serpent, frog, flies, dove, hen, lamb, sheep, goat, camel, colt, ox, fowl
- Include a bibliography in the back of the book to reference the materials used in the creation of the textbook
- Optional: Table of contents and page numbers