

Geology 14F Final Exam Review

Use the following questions from your textbook to review the topics covered on the exam:

Chapter 4, pg. 58, Review Questions 1 - 5.

Chapter 10, pg. 167, Review Questions 1- 3.

Chapter 11, pg. 182, Review Questions 1- 3.

Chapter 14, pg. 230, Review Questions 2- 5.

Chapter 15, pg. 247, Review Questions 1- 10.

Outline of Major Themes

Be familiar with cladistic (phylogenetic) classification – how are evolutionary relationships determined for a group of taxa such as the dinosaurs.

Know the main dinosaur clades and their characteristics: Saurischia, Ornithischia, Sauropodomorpha (Sauropoda and Prosauropoda), Theropoda, Thyreophora (Stegosauria and Ankylosauria), Marginocephalia (Ceratopsia and Pachycephalosauria), and Ornithopoda.

Be familiar with the change in land animals from synapsids and frog-gators in the end Paleozoic, through the Archosaur radiation in the Triassic, to the evolution of dinosaurs and extinction of most other archosaurs by the beginning of the Jurassic.

Review the kinds of information that can be read from dinosaur trackways and how speed is estimated from trackways.

Review the skeletal features that show the evolution of birds from dromaeosaur theropods.

Review the evidence and theories explaining the extinction of the Dinosaurs and other Mesozoic organisms.