

GEOL 02: Historical Geology

Lab 10: Paleozoic

2. Provide the requested information for each of the early Paleozoic events listed. This information can be found in Chapter 10 and 12 of the textbook. Write your answers on separate sheets of paper.
 - a. Tectonic Events, Rock Sequences and Orogenies – provide the time, description, location, and possible causes for each of the following
 - Sauk sequence
 - Taconic Orogeny
 - Tippecanoe sequence
 - Caledonian Orogeny
 - Acadian Orogeny
 - Antler Orogeny
 - b. Life Events
 - Burgess Shale and fauna– provide time, location, description of life forms, and significance
 - Great Ordovician Biodiversification event – provide a description
 - Rise of Fishes – provide the name, a description, and first appearance of the five taxonomic classes (p. 363).
 - Appearance of Amphibians – provide time and describe the general characteristics of animals in the Class Amphibia. When do they appear in rock record?
 - First appearance of land plants – provide time and fossil evidence. What type of reproductive elements were present? (p. 374-375).
 - Late Ordovician Extinction – provide a description and possible causes
 - Devonian Extinction – provide a description and the significance. (p. 378-379)
3. Use the sheets of graph paper provided to make a time scale of the events and features you listed in section 2 of this lab.
 - Your graph paper should extend from the Beginning of the Paleozoic (542 Ma) to the end of the Paleozoic (251 Ma). Note, that you will be adding events to the upper portion of your graph (359 to 251 Ma) after you complete the second part of the Paleozoic lab.
 - You need to devise a scale that fits this time span – how many millions of years will each block on your graph paper represent?
 - Plot the time scale as a column on the left side of the graph and leave room on the right.
 - To the right of each appropriate time, list the events and features described in the questions of 2a and 2b of this lab (Tectonic events, Rock Sequences, Orogenies, Life)
 - Provide short descriptions next to the events listed.

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4. Use the sheets of graph paper provided to make a time scale of the events and features you listed in section 2 of this lab.
 - Your graph paper should extend from the Beginning of the Paleozoic (542 Ma) to the end of the Paleozoic (251 Ma). Note, that you will be adding events to the upper portion of your graph (359 to 251 Ma) after you complete the second part of the Paleozoic lab.
 - You need to devise a scale that fits this time span – how many millions of years will each block on your graph paper represent?
 - Plot the time scale as a column on the left side of the graph and leave room on the right.
 - To the right of each appropriate time, list the events and features described in the questions of 2 and 3 of this lab (Tectonic events, Rock Sequences, Orogenies, Life)
 - Provide short descriptions next to the events listed.