Earth's Story and Those Who First Listened

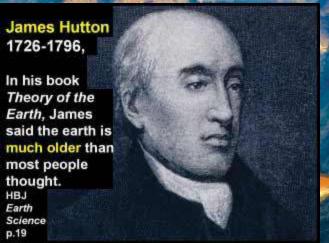
Objectives

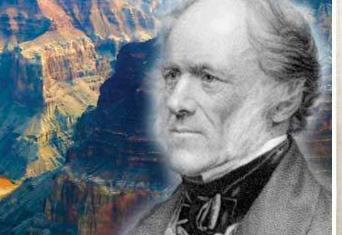
- Compare uniformitarianism and catastrophism.
- Describe how the science of geology has changed over the past 200 years.
- Explain the role of paleontology in the study of Earth's history.

I. The Principle of Uniformitarianism

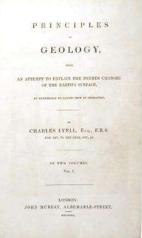
- A. What Is Uniformitarianism? Uniformitarianism is the idea that the same geologic processes shaping the Earth today have been at work throughout Earth's history. Uniformitarianism is illustrated on the next slide.
- B. Uniformitarianism Verses Catastrophism Catastrophism is the principle that states that all geologic change occurs suddenly. In the past, most scientists supported catastrophism rather than uniformitarianism.

C. A Victory for Uniformitarianism Geologist Charles Lyell made uniformitarianism popular in the 1830s.

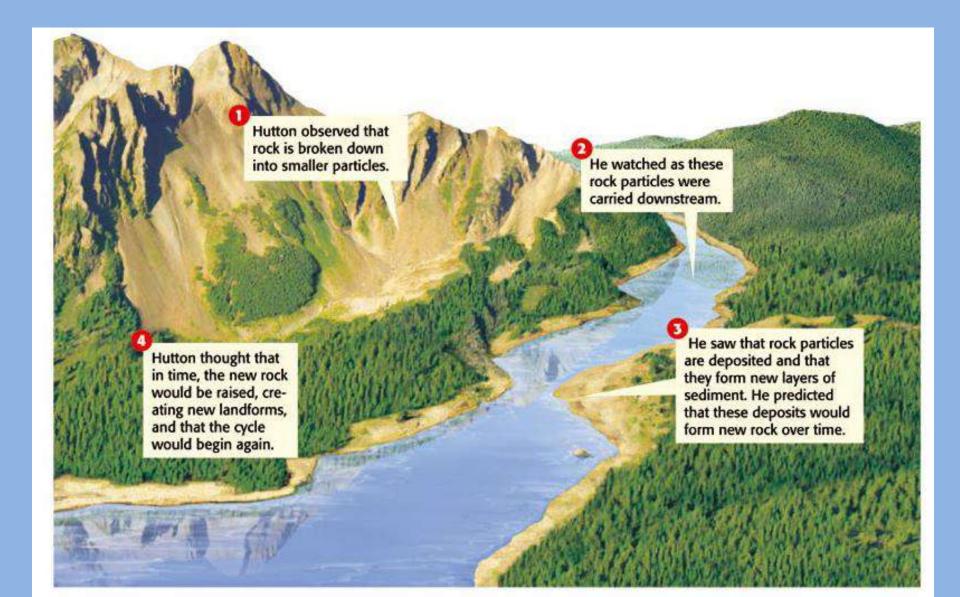








Hutton and the Principles of Uniformitarianism



II. Modern Geology—A Happy Medium

 Best of Both Worlds Modern geology is based on the idea that gradual geologic change is interrupted by catastrophes.



III. Paleontology-The Study of Past Life

 The Story Told by Fossils Using fossils to study past life is called paleontology.

