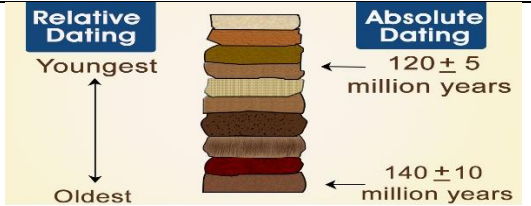
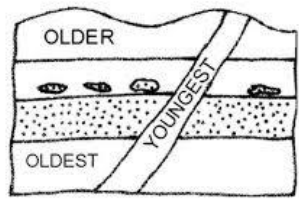
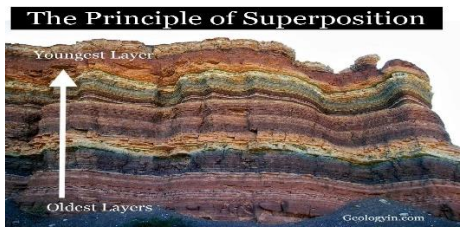
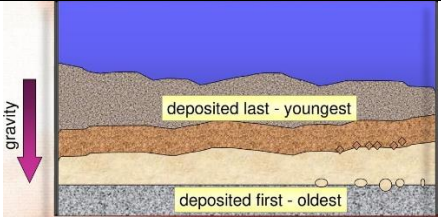
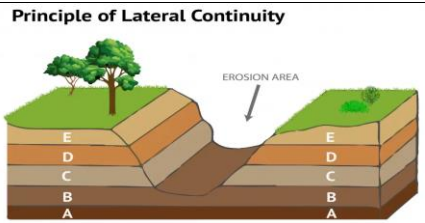
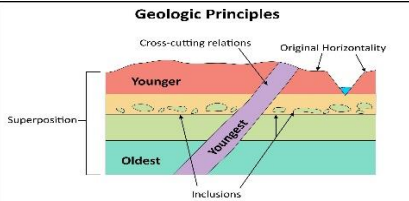
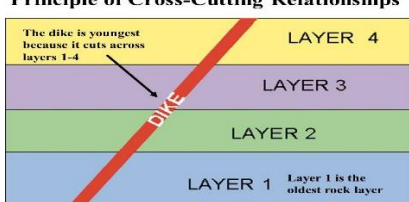


Term 1 Science Weekly Lesson Summary

Week: 2	Date: 1 st to 5 th September, 2025	Grade: 8.1 to 8.4	Teacher: Ms. Veena Bolaram
-------------------	--	-----------------------------	--------------------------------------

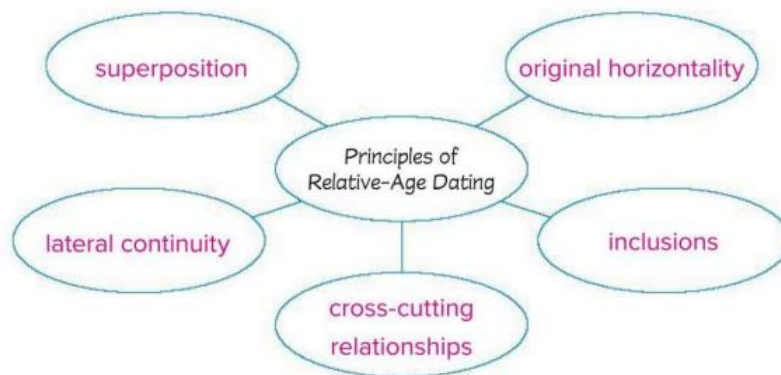
Unit/Module	1. Geologic Time		
Lesson:	L1- Analysing rocks and fossil records		
Textbook Pages:	10 to 20	Alef Lessons	1 to 3
Key Vocabulary:	Term	Definition	Image/picture
	uniformitarianism	a principle stating that geological processes that occur today are similar to those that occurred in the past.	
	absolute age	the numerical age, in years, of a rock or object.	
	relative age	the age of rocks and geological features compared with other nearby rocks and features.	
	Superposition	The principle that in undisturbed rock layers, the oldest rocks are on the bottom.	

	original horizontality	principle that most rock-forming materials are deposited in horizontal layers.	
	lateral continuity	principle that sediments are deposited in large, continuous sheets in all lateral directions.	
	Inclusions	a piece of an older rock that becomes a part of a new rock.	
	cross-cutting relationships	the principle that if one geologic feature cuts across another feature, the feature that it cuts across is older.	
	Fossils	the preserved remains or evidence of past living organisms.	
	mass extinctions	the extinction of many species on Earth within a short period of time.	

Lesson Summary:

- Scientists have determined that the Earth's history extends back 4.6 billion years. The same water erosion that erodes stream is what carved Canyon. It will take millions of years
- The **uniformitarian** principle: The scientist and farmer Hutton believed that the erosion caused by streams on his farm could be repeated in mountains and canyons over a long period of time and was therefore one of the first people to recognize that the Earth was very old.
- Hutton's ideas are the basis of a principle called **uniformitarianism**. The uniformitarian principle states that geological processes occurring today are similar to those that occurred in the past. In other words, the same processes we see today have been occurring since the Earth was formed.
- **Relative Age**: Relative age is the age of rocks and geological features compared to other rocks and features nearby.
- There are **five principles** that geologists use to determine the relative ages of rocks and features.

The Principles of relative age dating:



- Fossils are the most obvious evidence we find in rocks, and they are the **remains or traces** of ancient living things.
- Fossils found in the **oldest rock** layers are of relatively **simple organisms**. Fossils of **more complex** organisms appear in **younger rock** layers.

- These sudden disappearances in the fossil record of many types of organisms indicate **mass extinctions**—times when many species on Earth died out or became extinct within a relatively **short period of time**.
- Fossils and the rocks they contain can be used to **determine what the environment** in an area was like long ago. For example, a fossil of ancient coral is evidence that the surrounding area was a marine environment when the coral was alive.

**Key Questions
Textbook
: Pg 24-25**

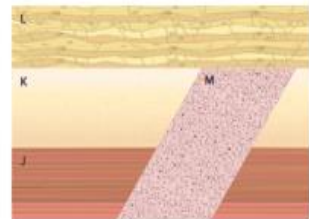
LESSON 1
Review
Pg 24

Summarize It!

1. **Organize:** In the space below, create a graphic organizer summarizing how the relative ages of rocks, geologic features, and events are determined using the rock and fossil records.

24 EVOLVE! Module: Geologic Time

Three-Dimensional Thinking
Imagine you are a geologist. You have been asked to analyze and interpret the rock sequence below. Your task is to determine the relative ages of the rocks.



2. Order the features in the illustration from oldest to youngest.

- A JKLM
- B MJKL
- C JKML**
- D MJLM

3. Which geologic principle must be assumed to determine the relative age of M?

- A cross-cutting relationships**
- B superposition
- C original horizontality
- D inclusions

**Key Questions
Inspire platform:
Lesson check.**

To be shared later on.