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Surface Features Unit Project

Your task is to explore the processes that attack and change the surface of the Earth.

The Earth's surface is built up by the processes of plate tectonics (*mountain-building* and volcanoes). What processes break down Earth's surface?

Driving question: How do surface process create certain surface features?

You will be given a specific **surface feature** (such as *rivers* or *caves*) that you must research, and then explain how it was created and by what process.

PROJECT GUIDELINES

- You will demonstrate your knowledge by: using the Explain Everything app OR writing Poetry/Song (recorded or presented)
- Your presentation will be shown in class.
- Must use a real world example. Use photos.
- Must be around 2 minutes long. Marks will be deducted if too short or too long.
- Due APRIL 16/17. You will have at least two classes in the library.

NECESSARY INFORMATION IN YOUR PRESENTATION

• Define your surface **feature**.

(What is it? Where is it found? How does it impact people?

Describe the process that created your feature?

(How was you feature created? How long does it take? Dangers to human life?)

- Explain the type of **weathering** that occurs with your feature:
 - mechanical (eg. ice wedging, abrasion, exfoliation, thermal expansion...)
 - chemical (eg. acid rain, leaching, oxidation, dissolution...)
 - biological (eg. roots, animals, lichens and fungus, humans...)
- Explain type of **erosion** that occurs with your feature:
 - (gravity, ice, water, wind movement...)
- Show a specific example.
- How is your process been affected by the current climate change?

Topics: **PROCESS**

1. Feature

RUNNING WATER

- 1. Rivers and Streams
- 2. Canyons and Valleys
- 3. Waterfalls
- 4. Meanders and Oxbow Lakes
- 5. Deltas and Alluvial Fans
- 6. Floodplains

GROUNDWATER

- 7. Springs and Wells
- 8. Hot springs
- 9. Geysers and Fumeroles
- 10. Caves and Karst Topography
- 11. Sinkholes

OCEANS

- 12. Beaches and beach erosion
- 13. Sea Cliffs and Sea Stacks
- 14. Sandbars, spits, hooks,
- 15. Lagoons
- 16. Tidal Bores
- 17. Reefs and Atolls

ICE

- 18. Valley Glaciers
- 19. Glacial lakes
- 20. Erratics and Striations
- 20. Glacial Erosion Features (cirques, horns, aretes, ridges, nunatuk, fjord)
- 21. U-shape Valleys and Hanging Troughs (valleys) and hanging waterfalls
- 22. Glacial Deposits (drumlins, moraines, kettles, kames, out wash plains, till, esker...)
- 23. Continental Ice Sheets
- 24. Moulins and Disappearing lakes
- 25. Icebergs

WIND

- 26. Deserts
- 27. Dust Storms
- 28. Sand Dunes
- 29. Ventifacts and Mushroom Rocks
- 30. Loess Plateau

LAND MOVEMENT (mass wasting)

- 31. Landslides
- 32. Rock Fall
- 33. Avalanche
- 34. Soil Degradation and Topsoil Erosion
- 35. Hoodoos