MOUNTAINS

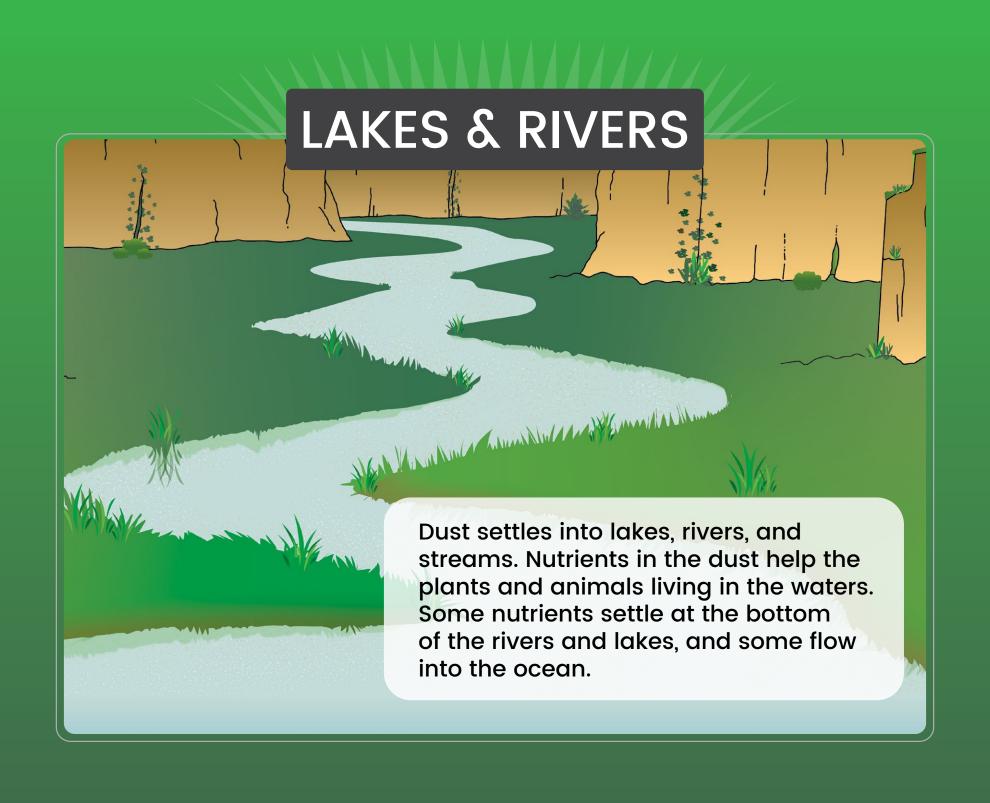
START HERE

Over millions of years, blowing winds and slow-moving glaciers break rocks off the mountains in a process called erosion. The smallest pieces of rock spread across the Earth's surface as dust. The dust is full of iron.

LOESS PLATEAU

What is loess?
(pronounced "luss") Loess
is loose sediment made of
tiny pieces of rock and dust
that have been carried far
from their source by winds.
There are large deposits of
loess in central China and the
American midwest.

Blowing winds carry dust away from the mountains. Some of the dust settles on the ground, forming sediment called loess deposits. A large area of loess can form a loess plateau. Over time, dust is carried away from the loess plateau by the wind or is washed away in a river.



ATMOSPHERE

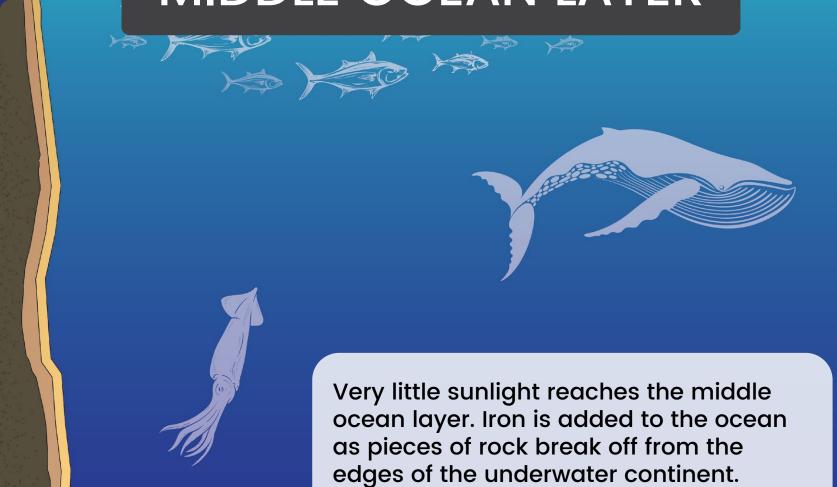
Dust blowing in the wind is carried far from its source, eventually settling on land or water. Tiny dust particles in the atmosphere can help form clouds and eventually join raindrops or snowflakes as they fall to the Earth's surface.

UPPER OCEAN LAYER

Near the surface of the ocean, sunlight shines through the water. Living things that use energy from the Sun, including phytoplankton, live here. When iron-rich dust settles into the ocean, it can cause a "bloom" of phytoplankton (as seen in the picture to the right).



MIDDLE OCEAN LAYER



DEEP OCEAN LAYER



The deep ocean is completely dark.

Nutrients settle on the ocean floor,
where they can remain for millions of
years. Hydrothermal vents spew out
gases and particles, adding iron to
the water.