rock composition, and location influence the rate of weathering.	Most weathering occurs over long periods of time—hundreds, thousands, or even millions of years. It can take hundreds or thousands of years for a very hard rock to wear down only a few millions of years of your fingernall. But the rate of weathers of your fingernall. But the rate of weathering is not the same for all rocks. Factors such as surface area.	Weathering occurs at different rates.	(Diconiciassionecom) (Table of Contents () (B) (B) (I) (II)
Surface Area The more of a rock's surface that is exposed to air and	hundreds, dreds or n only a few mil- ll. But the rate of as surface area, weathering.	es.	

## es.

water, the faster the rock will break down. A greater surface area allows chemical weathering to affect more of a rock. osed to air and



Over time, mechanical weathering breaks a rock into smaller pieces.



As a result, more of the rock's surface is exposed to chemical weathering.

Granite, for example, breaks down much more slowly than limestone. Both of these rocks are often used for tombstones and statues. Rock Composition Different kinds of rock break down at different rates.

However, mechanical weathering caused by freezing and thawing occurs more in cold regions than in hot regions. occurs faster in hot, wet regions than it does in cold, dry regions. speeds up chemical weathering. As a result, chemical weathering Climate Water is needed for chemical weathering to occur, and heat