

## Erosion Revision – Teacher Notes

What do you think caused the erosion (moved away the soil) in each of these cases and what can be done to stop it?



What caused the erosion along the pathway?

Human and native animals' feet killed off the spinifex and scrub. They also dislodged rocks and soil making a furrow. This furrow was used as a river bed during rains, carrying off more rocks and soil.

What can be done to stop the erosion?

Block off the pathway and direct tourists to a formal, properly laid pathway.



What caused the deeply cut gutter running away from the side of the road allowing precious top soil to be washed and blown away?

Rainwater runoff from the road.

What can be done to stop this erosion?

Put in proper drainage channels and drains.

What caused the erosion of the cliff and the loss of the pathway that used to run along the bottom of it?

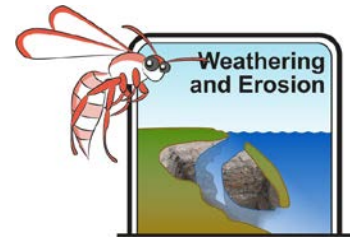
Storm water waves cutting away at the cliff base.

This is a natural process as a result of geologically recent sea level rises and soft easily eroded limestone cliffs.

What can be done to stop this erosion?

Large heavy rocks can be dumped at the foot of the cliff to break/decrease the erosive power of the waves. Either a major expensive engineering project is needed to rebuild and reinforce the path or it can be re-routed on top of the cliff.





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What caused the erosion of the high plateau to form the ravine?

The river slowly eroded this narrow valley over more than a million years

What can be done to stop this erosion?

The river would have to be dammed and diverted. This is the Fortescue River that runs through Karijini National Park. You can't dam rivers in National Parks!

What caused the erosion that cleared away the sand from around these amazing limestone pillars?

Wind eroded/blew away the sand exposing the rhyzoids (fossil root systems)

What can be done to stop this erosion?

Trees could be planted as a windbreak but again this is a National Park, The Pinnacles.



What caused erosion that cleared away the rock on the far side of Mundaring Weir where some of Perth's water supply is stored?

This quarry was dug out/eroded by man. The rock was taken away to make the base of a railway when the dam was being built.

What can be done to stop this erosion?

Rehabilitate the site by planting native plants.