TYPES OF EROSION

HYDRAULIC ACTION - THIS IS

THE SHEER POWER OF THE

MAVES AS THEY SMASH

AGAINST THE CLIFF. AIR

Rocks thrown against cliffs (corrasion/abrasion)

CAUSES THE ROCK TO BREAK
APART.

CRACKS IN THE ROCK AND

BECOMES TRAPPED IN THE

ATTRITION - THIS IS WHEN
ROCKS THAT THE SEA IS
CARRYING KNOCK AGAINST
EACH OTHER. THEY BREAK
APART TO BECOME SMALLER
AND MORE ROUNDED.

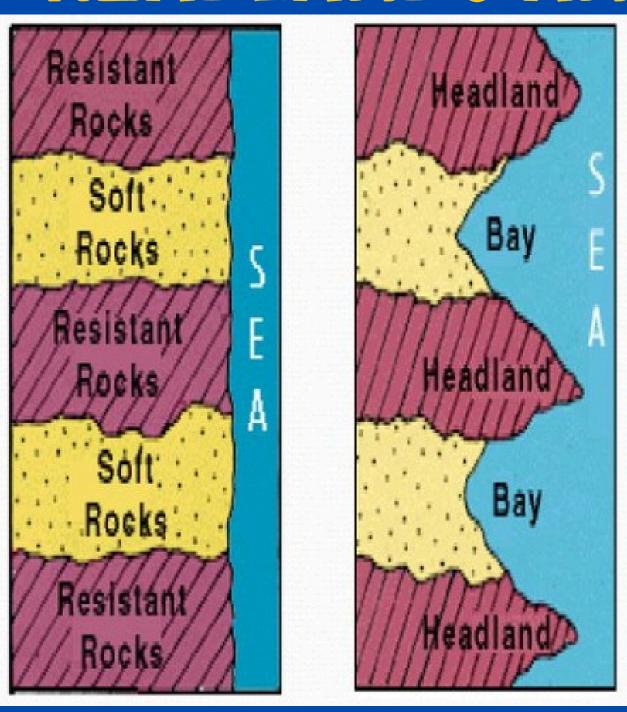
Solution - disolved minerals are carried by the sea. SALTATION

SUSPENSIOON

AMOUNT OF ENERGY REQUIRED AND SIZE OF MATERIAL

SOLUTION

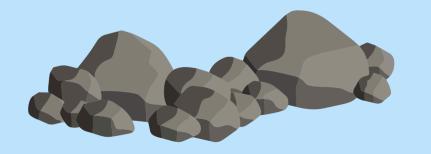
HEADLANDS AND BAYS - DISCORDANT COAST.

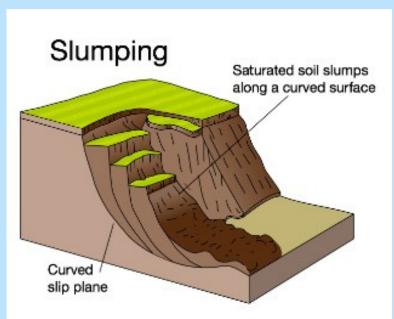


Words you MUST use in your explanation - Geology, hydraulic action, erosion, abrasion, resistant, less resistance, more quickly, discordant coastline, sand, deposited, waves less energy.



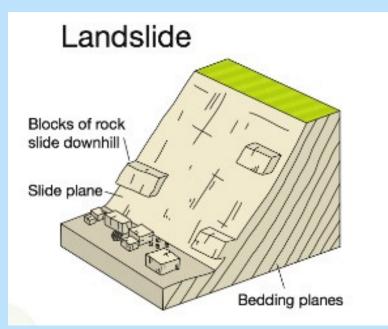
SLUMPING AND SLIDING







Cliffs formed from boulder clay, material deposited by glacial periods, are susceptible to high rates of coastal erosion. The soft boulder clay is quickly eroded through hydraulic action and abrasion. Sub-aerial processes, such as rainfall, also cause erosion. This often happens when layers of boulder clay, left behind by melting glaciers, become saturated and cause the cliff to slump. The debris on the beach is then eroded by the sea, leaving the cliff exposed once more.



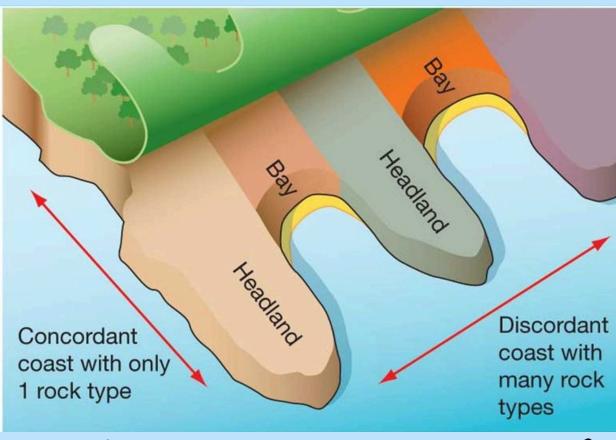


In areas of more resistant cliff material erosion is greatest when waves break at the foot of a cliff. This causes erosion at the base of the cliff. This creates a wave-cut notch in the base of the cliff. As the notch increases in size, the weight of the cliffs above becomes too much to support, leading to a landslide. This material will provide temporary protection for the cliff behind. However, once the sea has removed it, this process will occur again. Wave-cut platforms will be created where cliffs are made of more resistant material.

THE INFLUENCE OF GEOLOGY ON THE COASTAL

ENVIRONMENT.

On **concordant** coastlines, the rock run parallel with thecoast. Erosion will take a long time to break down the hard rock. If erosion does break through, a **cove** may form when the soft rock is eroded.









As more resistant rocks (e.g. chalk, limestone) erode more slowly than less resistant rocks, they project into the sea as headlands.

Less resistant rocks (e.g. clays and sands) have less structural strength and are eroded easily.

Less resistant rocks typically produce lower cliff profiles that experience mass movement,

