

**Coastal Studies**

**in**

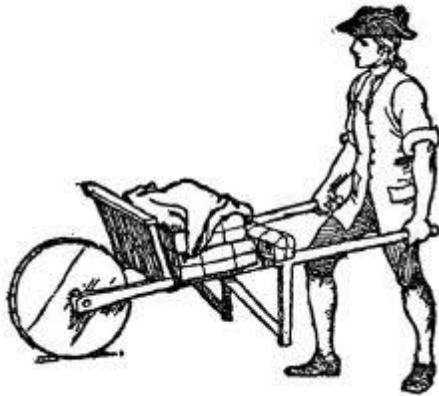
**Purbeck**

## The story of Old Harry Paye

600 years ago lived Harry Paye, a tudor smuggler in charge of a gang of smugglers. These smugglers would bring their smuggled goods across the channel to Swanage up to the 1850s. Customs officers in Poole knew of the activities of the smugglers and often went out to Swanage to try and catch them. This was not very successful as the smugglers knew all the good hiding places. The customs men decided the best

way to catch the smugglers was on the sea off-loading their smuggled goods. This was successful and many arrests were made, not good for Harry Paye. Harry decided to let other smugglers know when the customs men were out by sitting at handfast point, he sent

another to the highes point of ballard down. If the customs boat left the harbour, hary would light his lantern, his friend would then light his and the smugglers in Swanage would be able to see the light. Cunning.



## Coastal Erosion at Old Harry's Rocks

Over time a chunk of rock in the sea would get smaller and smaller until eventually there is nothing left. This process is known as erosion. Every part of the world that is on a coastline is in danger of erosion.

There are 4 main types of erosion:

### **Attrition**

Waves cause rocks and pebbles to bump into each other and break.

### **Abrasion**

Sand and pebbles are picked up by the sea and scraped against the cliff.

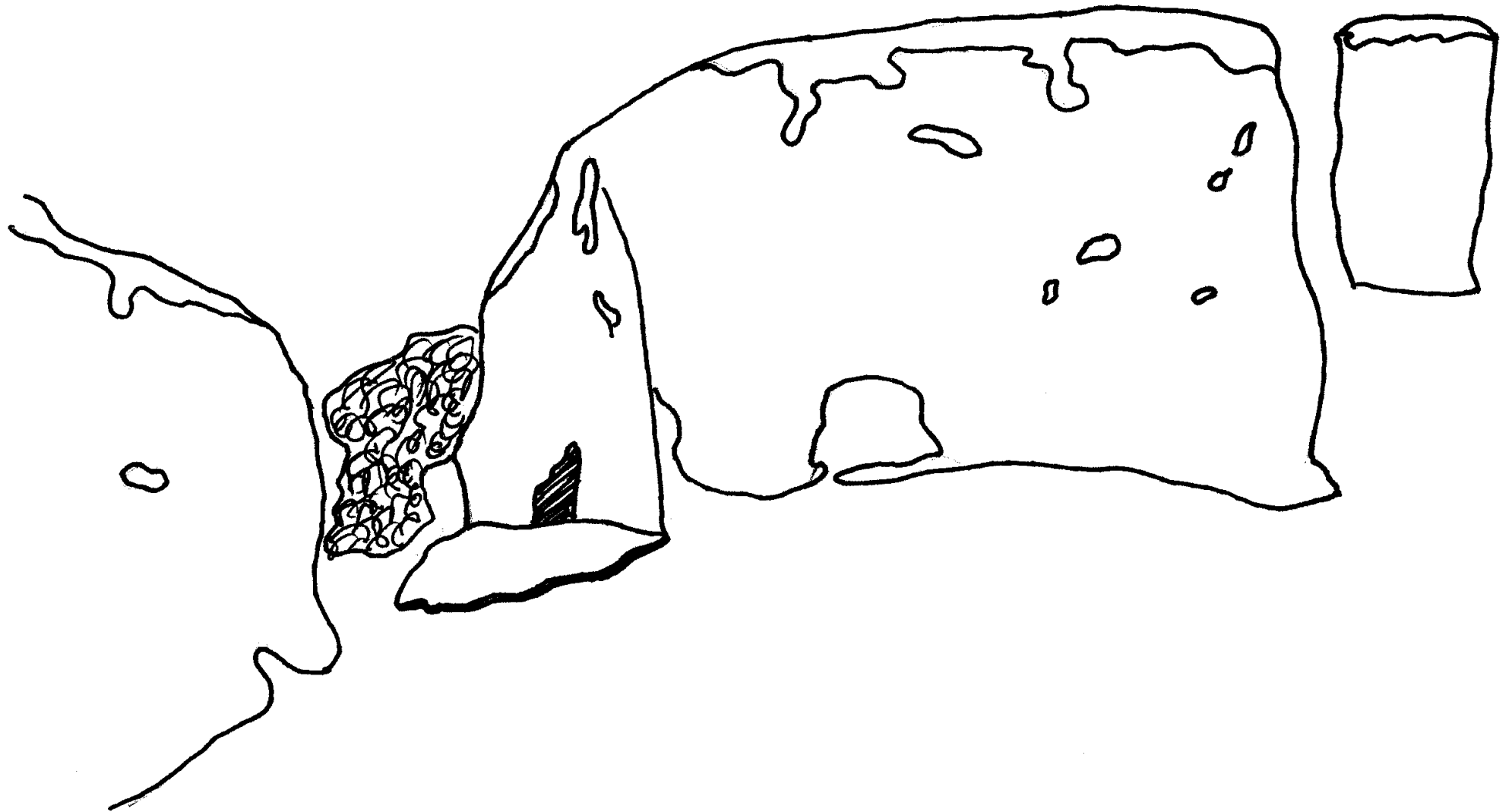
### **Hydraulic Action**

Water forces air into small cracks causing pressure and breaking the rock.

### **Solution**

Parts of the cliff are dissolved by chemicals in the sea.

Field Sketch of Old Harry Rocks



## Henry the Headlands really bad headache



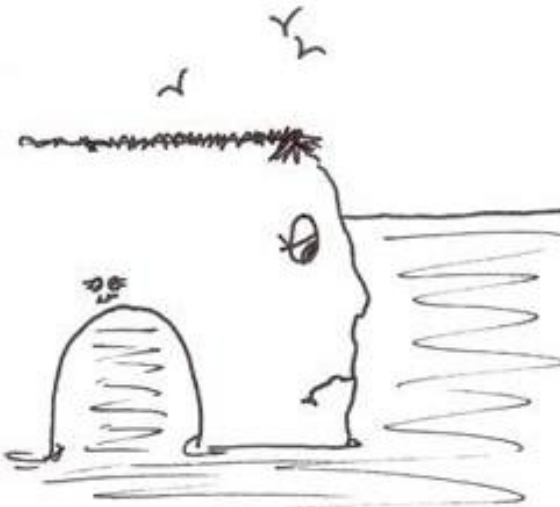
1. Meet Henry the Headland. Henry is a happy headland and enjoys watching the Sea.



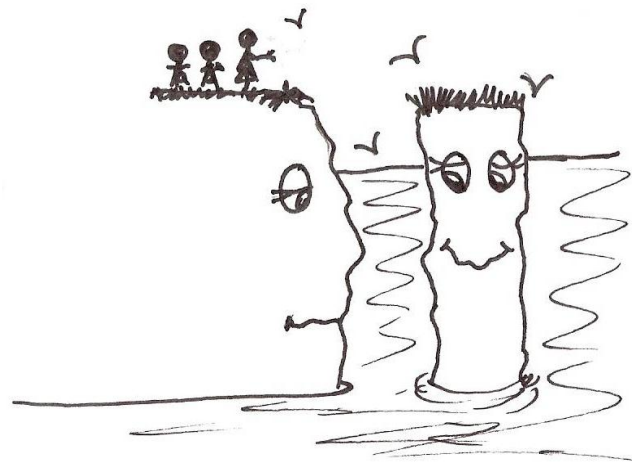
2. One morning though Henry woke up with a really bad headache. There was a huge \_\_\_\_\_ running down his side.



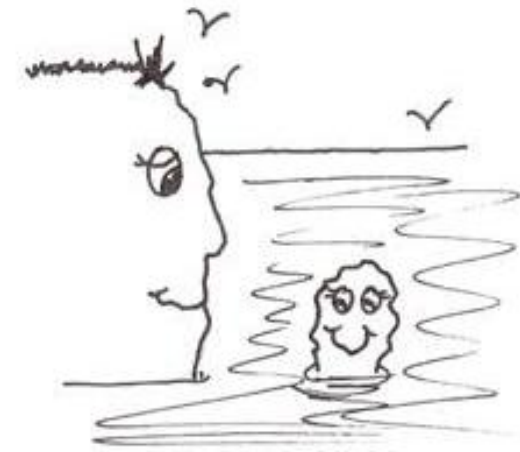
3. Henry's headache just got worse. The waves kept hitting Henry and soon the crack turned into Colin the \_\_\_\_\_.



4. Colin the cave just got bigger and bigger until the hole went right through Henry. Colin had turned into Archie the \_\_\_\_\_.



5. Then one day Archie the arch grew **SO** big his top fell into the water and Stanley the \_\_\_\_\_ appeared.



6. Over time the sea kept hitting Stanley the stack, wearing him down until one day he toppled over leaving Steve the \_\_\_\_\_ in his place.