

Student tasks

1. Complete the two geodoku grids below:

Large crack		Cave	Arch		
Arch		Small fissure	Cave		Stack
Small fissure			Large crack	Arch	
		Large crack	Stack		Cave
Stack			Small fissure		Arch
Cave		Arch	Stump		

	Stack		Large crack		Small fissure
	Large crack			Stump	
	Arch		Small fissure		
Large crack		Stump			Cave
	Cave	Large crack	Stump	Small fissure	Stack
Small fissure			Cave		



The Green Bridge of Wales © 2009 David Evans
<http://www.flickr.com/photos/21081514@N08/5347706946>

2. Use the words from the five Sudoku grids to label the image of the Green Bridge of Wales.
3. Write a short paragraph to explain the correct sequence of coastal erosion using the six key words/phrases from the Sudoku grids above. You should also include the words – headland and/or cliff.

Teaching notes

These two geodoku (a geography based Sudoku) grids use six key words and phrases from the sequence of coastal erosion on a cliff or headland.

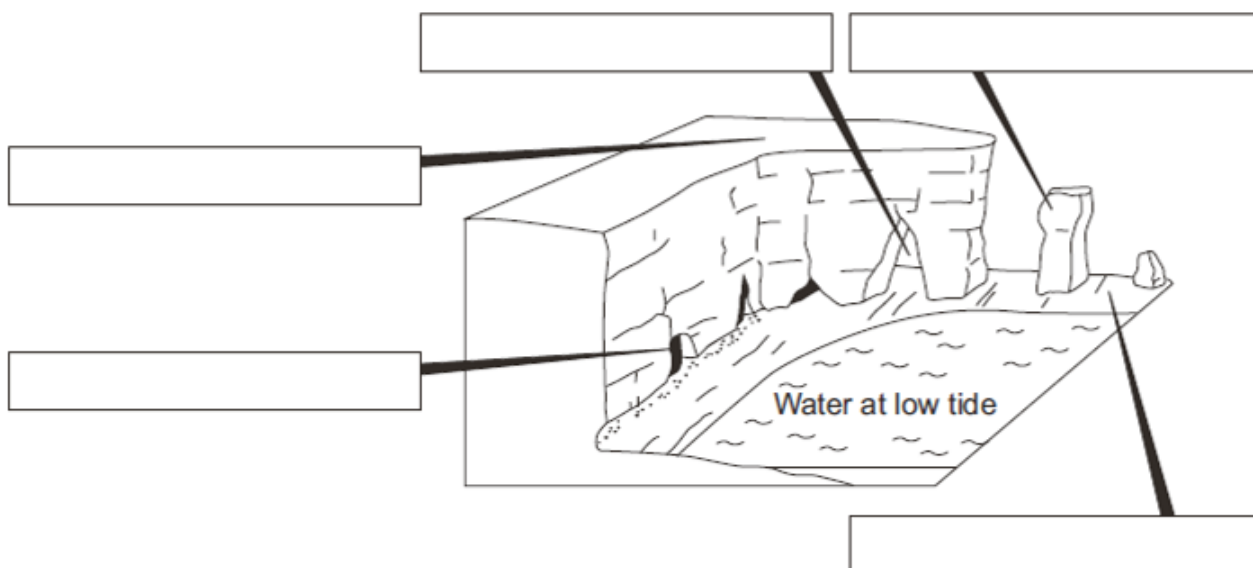
The students need to place one of the six key words and phrases into each empty cell in the grid. Each row, column, and three by two boxes must contain only one of each of the six key words or phrases.

The rules of Sudoku are probably familiar to the students although the six by six grids used in this resource are possibly less well known. These two geodoku grids are set at an easy level. Students could be set a time limit if they find this puzzle too easy or ask them to design one themselves using the six key words and phrases.

The two additional questions allow for further development.

Suggested extension task

The 'sideways' view of a headland will be familiar to students from textbooks. However, the more three dimensional diagram below has been used in KS4 examinations recently.



©AQA – Image used courtesy of AQA

You could ask your students to draw and label a field sketch of The Green Bridge of Wales similar to the sketch above using the image on the geodoku page or directly from [this webpage](#).

Geodoku grid answers

Large crack	Stack	Cave	Arch	Stump	Small fissure
Arch	Stump	Small fissure	Cave	Large crack	Stack
Small fissure	Cave	Stack	Large crack	Arch	Stump
Stump	Arch	Large crack	Stack	Small fissure	Cave
Stack	Large crack	Stump	Small fissure	Cave	Arch
Cave	Small fissure	Arch	Stump	Stack	Large crack

Stack	Stack	Arch	Large crack	Cave	Small fissure
Cave	Large crack	Small fissure	Stack	Stump	Arch
Stack	Arch	Cave	Small fissure	Large crack	Stump
Large crack	Small fissure	Stump	Arch	Stack	Cave
Arch	Cave	Large crack	Stump	Small fissure	Stack
Small fissure	Stump	Stack	Cave	Arch	Large crack