



# How Arches, Stacks and Stumps Form

I can explain how some coastal features are formed.



Sort the captions into the correct order. Create a cartoon strip to show how arches, stacks and stumps are formed.

1.	2.	3.
4.	5.	6.

Over time cracks in the rock open to form caves.	Soft or weak sections of rock are more easily eroded by the sea.	The top of the arch can weaken and may collapse into the sea.
If a cave forms in a headland, it may break through, causing an arch to form.	Over time, the sea will erode the stack until just a small piece of rock is visible above the water. This is called a stump.	The section left cut off when an arch collapses is called a stack.

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# How Arches, Stacks and Stumps Form Answers

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Sort the captions into the correct order. Create a cartoon strip to show how arches, stacks and stumps are formed.

1.  <i>Child's image should show a cliff face. Weak or soft areas may be shown by use of colour or arrows/labels.</i>	2.  <i>Child's image should show a cave forming in roughly a similar place to the indicator used in image 1.</i>	3.  <i>Child's image should show a headland with an arch.</i>
<i>Soft or weak sections of rock are more easily eroded by the sea.</i>	<i>Over time cracks in the rock open to form caves.</i>	<i>If a cave forms in a headland, it may break through, causing an arch to form.</i>
4.  <i>Child's image should show a headland either with a very thin top section and the impending collapse labelled, or show the section mid-collapse on its way to the sea.</i>	5.  <i>Child's image should show a headland with a stack.</i>	6.  <i>Child's image should show a headland with a stump.</i>
<i>The top of the arch can weaken and may collapse into the sea.</i>	<i>The section left cut off when an arch collapses is called a stack.</i>	<i>Over time, the sea will erode the stack until just a small piece of rock is visible above the water. This is called a stump.</i>