



# How Arches, Stacks and Stumps Form



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

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|----|----|----|
| 1. | 2. | 3. |
|    |    |    |
| 4. | 5. | 6. |
|    |    |    |

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|---|--|--|
| 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

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



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| 1.<br><br><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.<br><br><i>Child's image should show a cave forming in roughly a similar place to the indicator used in image 1.</i> | 3.<br><br><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.<br><br><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.<br><br><i>Child's image should show a headland with a stack.</i>  | 6.<br><br><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> |